

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: P567193

Luminaire Tested: **8SNX-102SL-SLW-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567193
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-SLW-UNV-L950-CD
Description: 8FT 10200 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

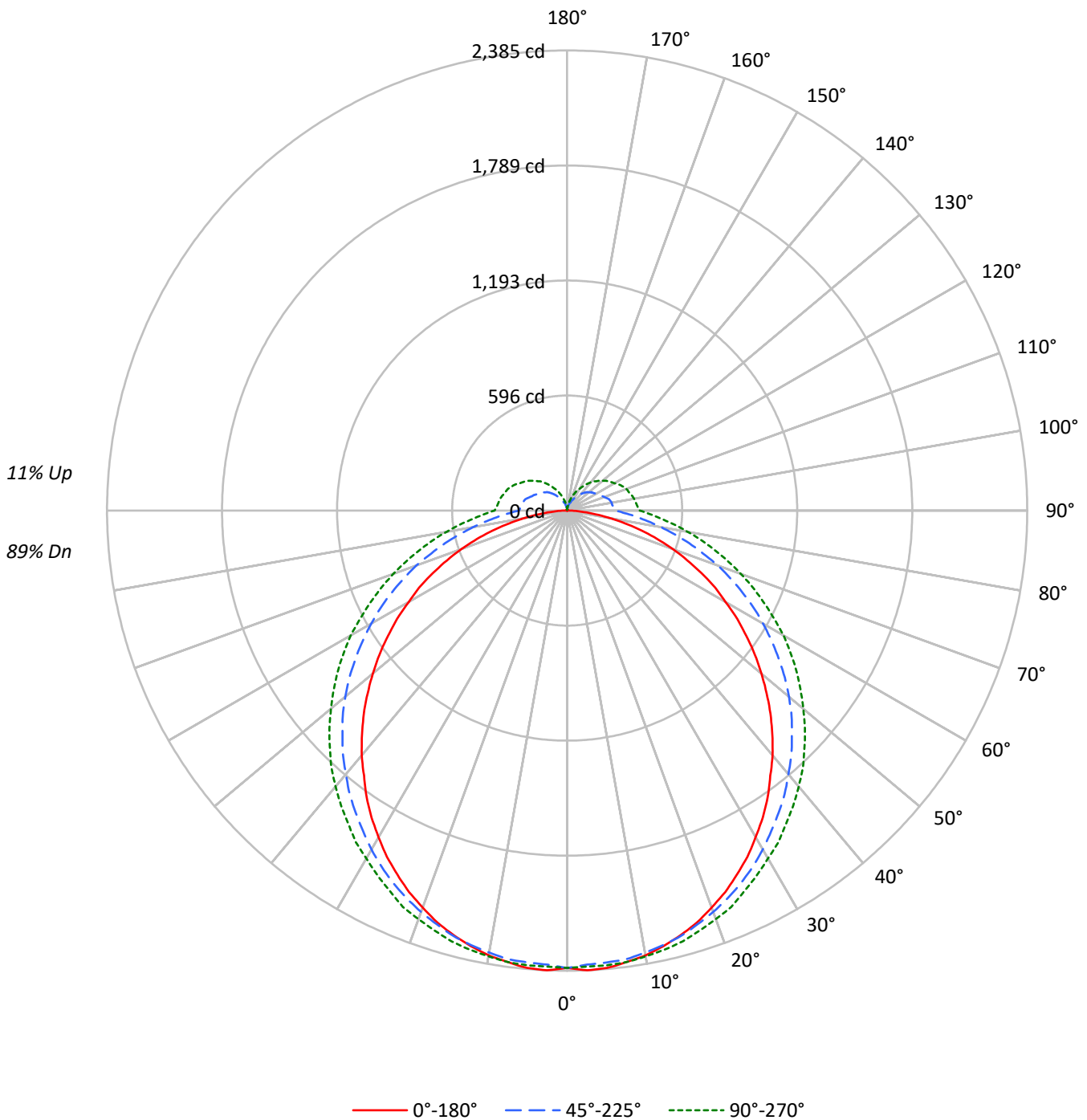
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8438.0 lumens
Efficiency: N/A
Efficacy: 120.5 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: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 70
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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CATALOG NUMBER: 8SNX-102SL-SLW-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567193

CATALOG NUMBER: 8SNX-102SL-SLW-UNV-L950-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 | 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° | 12757 | 12757 | 12757 |
| 5° | 12846 | 12436 | 12418 |
| 10° | 12770 | 12193 | 12111 |
| 15° | 12654 | 11942 | 11828 |
| 20° | 12492 | 11653 | 11513 |
| 25° | 12303 | 11370 | 11183 |
| 30° | 12076 | 11059 | 10857 |
| 35° | 11826 | 10735 | 10551 |
| 40° | 11539 | 10416 | 10258 |
| 45° | 11229 | 10092 | 9941 |
| 50° | 10873 | 9749 | 9587 |
| 55° | 10483 | 9337 | 9239 |
| 60° | 10025 | 8895 | 8851 |
| 65° | 9559 | 8399 | 8361 |
| 70° | 8898 | 7851 | 7883 |
| 75° | 8022 | 7154 | 7353 |
| 80° | 6580 | 6447 | 6830 |
| 85° | 4858 | 5849 | 6294 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 225.1 | 2.7 |
| 10°-20° | 647.1 | 7.7 |
| 20°-30° | 983.9 | 11.7 |
| 30°-40° | 1194.4 | 14.2 |
| 40°-50° | 1262.1 | 15.0 |
| 50°-60° | 1181.1 | 14.0 |
| 60°-70° | 969.1 | 11.5 |
| 70°-80° | 666.5 | 7.9 |
| 80°-90° | 365.0 | 4.3 |
| 90°-100° | 235.0 | 2.8 |
| 100°-110° | 210.9 | 2.5 |
| 110°-120° | 174.6 | 2.1 |
| 120°-130° | 134.4 | 1.6 |
| 130°-140° | 94.5 | 1.1 |
| 140°-150° | 56.9 | 0.7 |
| 150°-160° | 27.2 | 0.3 |
| 160°-170° | 8.9 | 0.1 |
| 170°-180° | 1.1 | 0.0 |
| 0°-30° | 1856.2 | 22.0 |
| 0°-40° | 3050.6 | 36.2 |
| 0°-60° | 5493.8 | 65.1 |
| 0°-90° | 7494.4 | 88.8 |
| 90°-120° | 620.6 | 7.4 |
| 90°-150° | 906.4 | 10.7 |
| 90°-180° | 944.0 | 11.2 |
| 0°-180° | 8438.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2370 | 2370 | 2370 | 2370 | 2370 | |
| 5° | 2380 | 2375 | 2351 | 2370 | 2365 | 226 |
| 15° | 2277 | 2287 | 2282 | 2312 | 2312 | 642 |
| 25° | 2082 | 2106 | 2131 | 2175 | 2175 | 959 |
| 35° | 1813 | 1857 | 1911 | 1965 | 1979 | 1133 |
| 45° | 1491 | 1559 | 1647 | 1720 | 1740 | 1149 |
| 55° | 1134 | 1227 | 1339 | 1422 | 1452 | 1015 |
| 65° | 767 | 870 | 1002 | 1095 | 1124 | 760 |
| 75° | 401 | 508 | 655 | 758 | 792 | 422 |
| 85° | 88 | 210 | 357 | 454 | 489 | 102 |
| 90° | 0 | 117 | 249 | 342 | 376 | 6 |
| 95° | 0 | 112 | 240 | 327 | 362 | 0 |
| 105° | 0 | 93 | 225 | 308 | 337 | 3 |
| 115° | 5 | 83 | 191 | 274 | 308 | 5 |
| 125° | 5 | 68 | 161 | 235 | 264 | 4 |
| 135° | 5 | 54 | 132 | 191 | 215 | 4 |
| 145° | 5 | 39 | 93 | 147 | 161 | 3 |
| 155° | 5 | 24 | 59 | 93 | 108 | 2 |
| 165° | 5 | 15 | 29 | 44 | 54 | 1 |
| 175° | 5 | 5 | 10 | 10 | 5 | 0 |
| 180° | 5 | 5 | 5 | 5 | 5 | |



TEST NUMBER: P567193

CATALOG NUMBER: 8SNX-102SL-SLW-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2370.3 | 2370.3 | 2370.3 | 2370.3 | 2370.3 |
| 2.5° | 2384.9 | 2380.0 | 2355.6 | 2375.1 | 2365.4 |
| 5° | 2380.0 | 2375.1 | 2350.7 | 2370.3 | 2365.4 |
| 7.5° | 2360.5 | 2360.5 | 2345.8 | 2365.4 | 2360.5 |
| 10° | 2340.9 | 2340.9 | 2326.3 | 2350.7 | 2345.8 |
| 12.5° | 2311.6 | 2316.5 | 2306.7 | 2336.0 | 2331.2 |
| 15° | 2277.4 | 2287.2 | 2282.3 | 2311.6 | 2311.6 |
| 17.5° | 2238.3 | 2248.1 | 2248.1 | 2282.3 | 2282.3 |
| 20° | 2189.4 | 2204.1 | 2213.9 | 2253.0 | 2253.0 |
| 22.5° | 2140.6 | 2160.1 | 2174.8 | 2209.0 | 2223.6 |
| 25° | 2081.9 | 2106.3 | 2130.8 | 2174.8 | 2174.8 |
| 27.5° | 2023.3 | 2052.6 | 2081.9 | 2125.9 | 2130.8 |
| 30° | 1954.8 | 1989.1 | 2028.2 | 2072.1 | 2081.9 |
| 32.5° | 1886.4 | 1930.4 | 1969.5 | 2023.3 | 2037.9 |
| 35° | 1813.1 | 1857.1 | 1910.9 | 1964.6 | 1979.3 |
| 37.5° | 1730.0 | 1783.8 | 1852.2 | 1910.9 | 1925.5 |
| 40° | 1656.7 | 1715.4 | 1783.8 | 1852.2 | 1866.9 |
| 42.5° | 1573.7 | 1637.2 | 1720.3 | 1783.8 | 1808.2 |
| 45° | 1490.6 | 1559.0 | 1647.0 | 1720.3 | 1739.8 |
| 47.5° | 1402.6 | 1480.8 | 1578.5 | 1647.0 | 1671.4 |
| 50° | 1314.6 | 1397.7 | 1500.3 | 1578.5 | 1598.1 |
| 52.5° | 1226.7 | 1314.6 | 1422.2 | 1500.3 | 1524.8 |
| 55° | 1133.8 | 1226.7 | 1339.1 | 1422.2 | 1451.5 |
| 57.5° | 1045.8 | 1138.7 | 1256.0 | 1344.0 | 1373.3 |
| 60° | 948.1 | 1055.6 | 1172.9 | 1260.9 | 1295.1 |
| 62.5° | 865.0 | 962.8 | 1089.8 | 1177.8 | 1207.1 |
| 65° | 767.3 | 869.9 | 1001.9 | 1094.7 | 1124.0 |
| 67.5° | 674.4 | 781.9 | 913.9 | 1011.6 | 1041.0 |
| 70° | 581.6 | 689.1 | 830.8 | 923.7 | 957.9 |
| 72.5° | 488.7 | 601.1 | 738.0 | 840.6 | 874.8 |
| 75° | 400.7 | 508.3 | 654.9 | 757.5 | 791.7 |
| 77.5° | 307.9 | 425.2 | 571.8 | 674.4 | 713.5 |
| 80° | 224.8 | 347.0 | 493.6 | 596.2 | 635.3 |
| 82.5° | 151.5 | 273.7 | 420.3 | 522.9 | 562.0 |
| 85° | 88.0 | 210.1 | 356.8 | 454.5 | 488.7 |
| 87.5° | 44.0 | 161.3 | 298.1 | 395.9 | 430.1 |
| 90° | 0.0 | 117.3 | 249.2 | 342.1 | 376.3 |
| 92.5° | 0.0 | 112.4 | 244.4 | 332.3 | 366.5 |
| 95° | 0.0 | 112.4 | 239.5 | 327.4 | 361.6 |
| 97.5° | 0.0 | 107.5 | 234.6 | 327.4 | 356.8 |
| 100° | 0.0 | 102.6 | 234.6 | 322.6 | 351.9 |
| 102.5° | 0.0 | 97.7 | 229.7 | 317.7 | 347.0 |
| 105° | 0.0 | 92.9 | 224.8 | 307.9 | 337.2 |
| 107.5° | 4.9 | 92.9 | 215.0 | 303.0 | 332.3 |
| 110° | 4.9 | 88.0 | 205.3 | 298.1 | 327.4 |



TEST NUMBER: P567193

CATALOG NUMBER: 8SNX-102SL-SLW-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 4.9 | 83.1 | 195.5 | 288.3 | 317.7 |
| 115° | 4.9 | 83.1 | 190.6 | 273.7 | 307.9 |
| 117.5° | 4.9 | 78.2 | 180.8 | 263.9 | 298.1 |
| 120° | 4.9 | 78.2 | 175.9 | 254.1 | 283.5 |
| 122.5° | 4.9 | 73.3 | 166.2 | 244.4 | 273.7 |
| 125° | 4.9 | 68.4 | 161.3 | 234.6 | 263.9 |
| 127.5° | 4.9 | 63.5 | 156.4 | 224.8 | 254.1 |
| 130° | 4.9 | 58.6 | 146.6 | 215.0 | 239.5 |
| 132.5° | 4.9 | 58.6 | 141.7 | 200.4 | 229.7 |
| 135° | 4.9 | 53.8 | 132.0 | 190.6 | 215.0 |
| 137.5° | 4.9 | 48.9 | 122.2 | 180.8 | 205.3 |
| 140° | 4.9 | 44.0 | 112.4 | 171.0 | 190.6 |
| 142.5° | 4.9 | 44.0 | 102.6 | 156.4 | 175.9 |
| 145° | 4.9 | 39.1 | 92.9 | 146.6 | 161.3 |
| 147.5° | 4.9 | 34.2 | 83.1 | 132.0 | 146.6 |
| 150° | 4.9 | 34.2 | 73.3 | 117.3 | 132.0 |
| 152.5° | 4.9 | 29.3 | 63.5 | 107.5 | 122.2 |
| 155° | 4.9 | 24.4 | 58.6 | 92.9 | 107.5 |
| 157.5° | 4.9 | 24.4 | 48.9 | 78.2 | 92.9 |
| 160° | 4.9 | 19.5 | 44.0 | 63.5 | 78.2 |
| 162.5° | 4.9 | 19.5 | 39.1 | 53.8 | 68.4 |
| 165° | 4.9 | 14.7 | 29.3 | 44.0 | 53.8 |
| 167.5° | 4.9 | 14.7 | 24.4 | 34.2 | 44.0 |
| 170° | 4.9 | 9.8 | 19.5 | 24.4 | 34.2 |
| 172.5° | 4.9 | 9.8 | 14.7 | 14.7 | 14.7 |
| 175° | 4.9 | 4.9 | 9.8 | 9.8 | 4.9 |
| 177.5° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 180° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |

(END OF REPORT)