

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: P568039

Luminaire Tested: **8SNX-82SL-LN-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P568039
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-82SL-LN-UNV-L935-CD
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

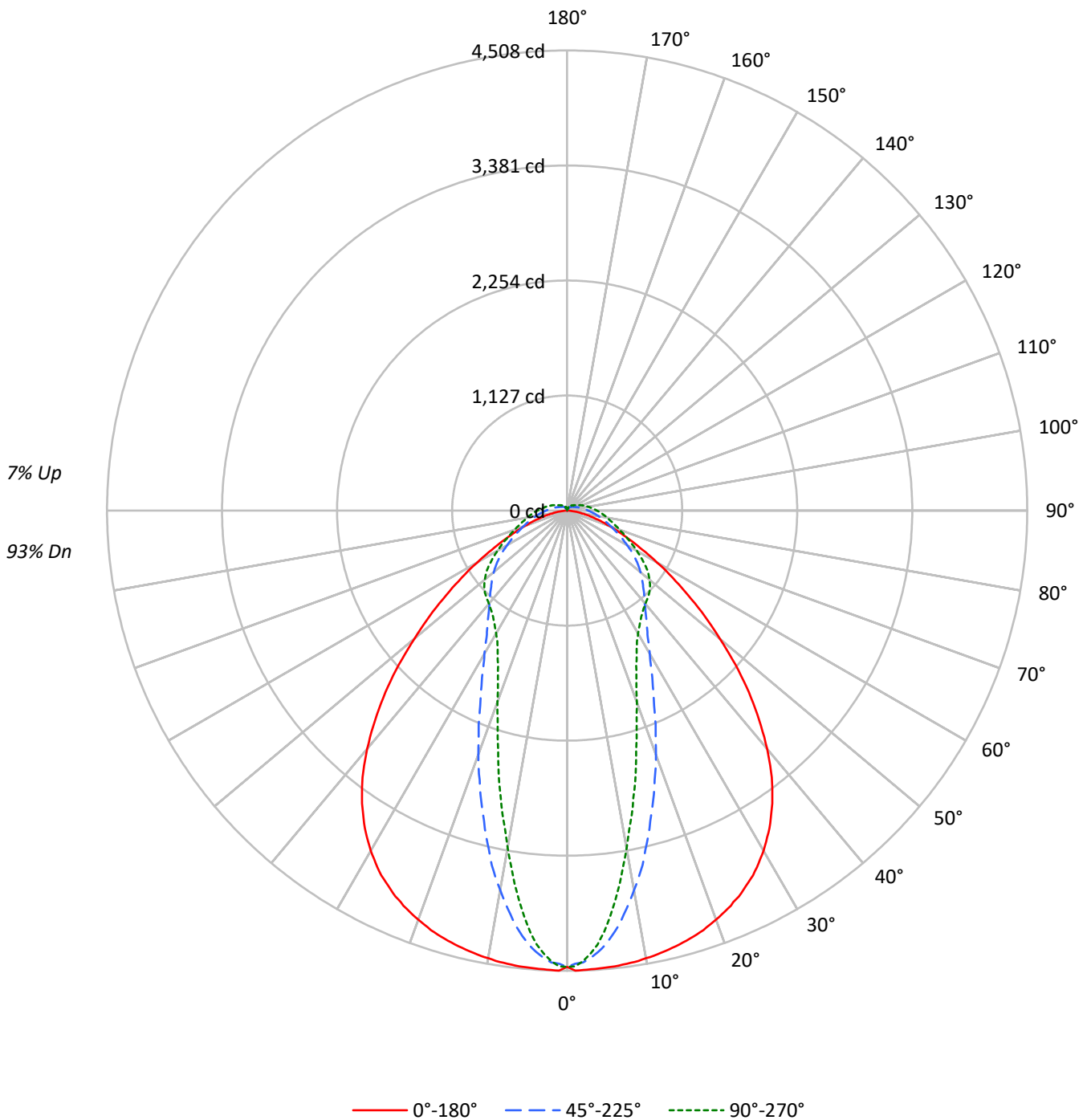
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7126.0 lumens
Efficiency: N/A
Efficacy: 135.5 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): 52.6
Input Voltage (V): NR
Input Current (A_{in}): 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: P568039
CATALOG NUMBER: 8SNX-82SL-LN-UNV-L935-CD

Luminous Intensity Polar Plot





TEST NUMBER: P568039

CATALOG NUMBER: 8SNX-82SL-LN-UNV-L935-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 | 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° | 24060 | 24060 | 24060 |
| 5° | 24228 | 22140 | 21161 |
| 10° | 24239 | 19005 | 16418 |
| 15° | 24273 | 15520 | 12305 |
| 20° | 24243 | 12376 | 9209 |
| 25° | 24073 | 9708 | 7309 |
| 30° | 23621 | 7865 | 6234 |
| 35° | 22685 | 6663 | 5671 |
| 40° | 21043 | 5889 | 5367 |
| 45° | 18767 | 5394 | 5202 |
| 50° | 15958 | 4970 | 4914 |
| 55° | 13170 | 4509 | 4488 |
| 60° | 10593 | 3972 | 3936 |
| 65° | 8286 | 3493 | 3426 |
| 70° | 6504 | 3095 | 3030 |
| 75° | 5117 | 2787 | 2761 |
| 80° | 3725 | 2557 | 2567 |
| 85° | 2234 | 2392 | 2461 |



TEST NUMBER: P568039

CATALOG NUMBER: 8SNX-82SL-LN-UNV-L935-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 395.9 | 5.6 |
| 10°-20° | 927.9 | 13.0 |
| 20°-30° | 1101.5 | 15.5 |
| 30°-40° | 1108.2 | 15.6 |
| 40°-50° | 1030.1 | 14.5 |
| 50°-60° | 848.3 | 11.9 |
| 60°-70° | 597.7 | 8.4 |
| 70°-80° | 390.5 | 5.5 |
| 80°-90° | 249.3 | 3.5 |
| 90°-100° | 163.5 | 2.3 |
| 100°-110° | 111.0 | 1.6 |
| 110°-120° | 76.1 | 1.1 |
| 120°-130° | 52.6 | 0.7 |
| 130°-140° | 35.4 | 0.5 |
| 140°-150° | 21.8 | 0.3 |
| 150°-160° | 11.3 | 0.2 |
| 160°-170° | 4.1 | 0.1 |
| 170°-180° | 0.7 | 0.0 |
| 0°-30° | 2425.3 | 34.0 |
| 0°-40° | 3533.5 | 49.6 |
| 0°-60° | 5411.9 | 75.9 |
| 0°-90° | 6649.4 | 93.3 |
| 90°-120° | 350.6 | 4.9 |
| 90°-150° | 460.5 | 6.5 |
| 90°-180° | 477.0 | 6.7 |
| 0°-180° | 7126.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4470 | 4470 | 4470 | 4470 | 4470 | |
| 5° | 4493 | 4433 | 4272 | 4190 | 4145 | 428 |
| 15° | 4381 | 3914 | 3148 | 2752 | 2603 | 1237 |
| 25° | 4093 | 3025 | 2006 | 1684 | 1613 | 1884 |
| 35° | 3503 | 2047 | 1359 | 1274 | 1266 | 2179 |
| 45° | 2517 | 1348 | 1053 | 1109 | 1139 | 1932 |
| 55° | 1445 | 885 | 814 | 904 | 934 | 1305 |
| 65° | 680 | 534 | 560 | 631 | 654 | 690 |
| 75° | 265 | 276 | 377 | 444 | 463 | 287 |
| 85° | 45 | 127 | 254 | 329 | 344 | 56 |
| 90° | 0 | 86 | 205 | 280 | 291 | 3 |
| 95° | 0 | 64 | 172 | 235 | 246 | 0 |
| 105° | 0 | 45 | 116 | 164 | 179 | 0 |
| 115° | 4 | 37 | 82 | 120 | 127 | 3 |
| 125° | 4 | 30 | 67 | 86 | 93 | 3 |
| 135° | 4 | 26 | 52 | 67 | 71 | 3 |
| 145° | 4 | 19 | 37 | 52 | 56 | 2 |
| 155° | 4 | 15 | 26 | 37 | 41 | 2 |
| 165° | 4 | 8 | 15 | 19 | 22 | 1 |
| 175° | 8 | 8 | 8 | 8 | 4 | 0 |
| 180° | 4 | 4 | 4 | 4 | 4 | |



TEST NUMBER: P568039

CATALOG NUMBER: 8SNX-82SL-LN-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4470.4 | 4470.4 | 4470.4 | 4470.4 | 4470.4 |
| 1° | 4507.7 | 4489.0 | 4440.5 | 4474.1 | 4466.6 |
| 2° | 4504.0 | 4485.3 | 4429.3 | 4444.2 | 4418.1 |
| 3° | 4500.2 | 4474.1 | 4388.2 | 4384.5 | 4347.1 |
| 4° | 4496.5 | 4455.4 | 4335.9 | 4291.1 | 4261.2 |
| 5° | 4492.8 | 4433.0 | 4272.4 | 4190.3 | 4145.4 |
| 6° | 4489.0 | 4406.9 | 4190.3 | 4067.0 | 4003.5 |
| 7° | 4481.6 | 4365.8 | 4104.4 | 3936.3 | 3854.1 |
| 8° | 4474.1 | 4328.4 | 3996.1 | 3794.4 | 3693.5 |
| 9° | 4466.6 | 4279.9 | 3887.8 | 3641.3 | 3521.8 |
| 10° | 4451.7 | 4231.3 | 3775.7 | 3484.4 | 3357.4 |
| 11° | 4444.2 | 4175.3 | 3667.4 | 3335.0 | 3185.6 |
| 12° | 4429.3 | 4115.6 | 3551.6 | 3178.2 | 3047.5 |
| 13° | 4414.3 | 4052.1 | 3409.7 | 3043.7 | 2886.9 |
| 14° | 4399.4 | 3984.9 | 3286.5 | 2894.3 | 2748.7 |
| 15° | 4380.7 | 3913.9 | 3148.3 | 2752.4 | 2603.0 |
| 16° | 4362.0 | 3831.7 | 3025.1 | 2606.8 | 2449.9 |
| 17° | 4343.4 | 3753.3 | 2909.3 | 2472.3 | 2330.4 |
| 18° | 4321.0 | 3674.9 | 2774.8 | 2341.6 | 2203.4 |
| 19° | 4291.1 | 3585.2 | 2666.5 | 2222.1 | 2095.1 |
| 20° | 4264.9 | 3503.1 | 2543.3 | 2110.1 | 1998.0 |
| 21° | 4235.1 | 3402.2 | 2420.0 | 2005.5 | 1893.5 |
| 22.5° | 4190.3 | 3260.3 | 2263.2 | 1874.8 | 1770.2 |
| 23° | 4167.8 | 3219.3 | 2199.7 | 1826.2 | 1736.6 |
| 24° | 4138.0 | 3110.9 | 2095.1 | 1751.5 | 1661.9 |
| 25° | 4093.2 | 3025.1 | 2005.5 | 1684.3 | 1613.4 |
| 26° | 4052.1 | 2920.5 | 1915.9 | 1624.6 | 1553.6 |
| 27° | 4011.0 | 2819.6 | 1837.4 | 1561.1 | 1501.3 |
| 28° | 3958.7 | 2715.1 | 1751.5 | 1508.8 | 1456.5 |
| 29° | 3902.7 | 2618.0 | 1680.6 | 1464.0 | 1422.9 |
| 30° | 3846.7 | 2509.7 | 1620.8 | 1422.9 | 1389.3 |
| 32.5° | 3689.8 | 2270.7 | 1467.7 | 1344.5 | 1322.1 |
| 35° | 3503.1 | 2046.6 | 1359.4 | 1273.5 | 1266.0 |
| 37.5° | 3293.9 | 1841.2 | 1262.3 | 1217.5 | 1225.0 |
| 40° | 3047.5 | 1654.4 | 1180.1 | 1176.4 | 1191.3 |
| 42.5° | 2786.0 | 1493.9 | 1116.7 | 1142.8 | 1165.2 |
| 45° | 2517.1 | 1348.2 | 1053.2 | 1109.2 | 1139.1 |
| 47.5° | 2237.0 | 1221.2 | 997.1 | 1068.1 | 1101.7 |
| 50° | 1953.2 | 1098.0 | 937.4 | 1019.6 | 1053.2 |
| 52.5° | 1699.3 | 989.7 | 877.6 | 963.5 | 1000.9 |
| 55° | 1445.3 | 885.1 | 814.1 | 903.8 | 933.7 |
| 57.5° | 1225.0 | 788.0 | 746.9 | 836.6 | 859.0 |
| 60° | 1019.6 | 694.6 | 679.7 | 761.9 | 788.0 |
| 62.5° | 832.8 | 612.5 | 616.2 | 694.6 | 720.8 |
| 65° | 679.7 | 534.1 | 560.2 | 631.2 | 653.6 |



TEST NUMBER: P568039

CATALOG NUMBER: 8SNX-82SL-LN-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 67.5° | 552.7 | 459.4 | 504.2 | 578.9 | 597.5 |
| 70° | 437.0 | 392.1 | 459.4 | 526.6 | 545.3 |
| 72.5° | 347.3 | 332.4 | 414.5 | 485.5 | 500.4 |
| 75° | 265.2 | 276.4 | 377.2 | 444.4 | 463.1 |
| 77.5° | 190.5 | 231.5 | 339.9 | 410.8 | 425.7 |
| 80° | 134.4 | 190.5 | 310.0 | 380.9 | 395.9 |
| 82.5° | 85.9 | 156.9 | 280.1 | 354.8 | 369.7 |
| 85° | 44.8 | 127.0 | 254.0 | 328.6 | 343.6 |
| 87.5° | 18.7 | 104.6 | 227.8 | 302.5 | 317.4 |
| 90° | 0.0 | 85.9 | 205.4 | 280.1 | 291.3 |
| 92.5° | 0.0 | 74.7 | 186.7 | 257.7 | 268.9 |
| 95° | 0.0 | 63.5 | 171.8 | 235.3 | 246.5 |
| 97.5° | 0.0 | 59.8 | 153.1 | 216.6 | 227.8 |
| 100° | 0.0 | 52.3 | 138.2 | 197.9 | 212.9 |
| 102.5° | 0.0 | 48.6 | 127.0 | 179.3 | 194.2 |
| 105° | 0.0 | 44.8 | 115.8 | 164.3 | 179.3 |
| 107.5° | 0.0 | 41.1 | 108.3 | 153.1 | 164.3 |
| 110° | 0.0 | 41.1 | 97.1 | 141.9 | 153.1 |
| 112.5° | 3.7 | 37.3 | 89.6 | 127.0 | 138.2 |
| 115° | 3.7 | 37.3 | 82.2 | 119.5 | 127.0 |
| 117.5° | 3.7 | 37.3 | 78.4 | 108.3 | 115.8 |
| 120° | 3.7 | 33.6 | 74.7 | 100.8 | 108.3 |
| 122.5° | 3.7 | 33.6 | 71.0 | 93.4 | 97.1 |
| 125° | 3.7 | 29.9 | 67.2 | 85.9 | 93.4 |
| 127.5° | 3.7 | 29.9 | 63.5 | 82.2 | 85.9 |
| 130° | 3.7 | 29.9 | 59.8 | 74.7 | 82.2 |
| 132.5° | 3.7 | 26.1 | 56.0 | 71.0 | 74.7 |
| 135° | 3.7 | 26.1 | 52.3 | 67.2 | 71.0 |
| 137.5° | 3.7 | 22.4 | 48.6 | 63.5 | 67.2 |
| 140° | 3.7 | 22.4 | 44.8 | 59.8 | 63.5 |
| 142.5° | 3.7 | 18.7 | 41.1 | 56.0 | 59.8 |
| 145° | 3.7 | 18.7 | 37.3 | 52.3 | 56.0 |
| 147.5° | 3.7 | 18.7 | 33.6 | 48.6 | 52.3 |
| 150° | 3.7 | 14.9 | 29.9 | 44.8 | 48.6 |
| 152.5° | 3.7 | 14.9 | 26.1 | 41.1 | 44.8 |
| 155° | 3.7 | 14.9 | 26.1 | 37.3 | 41.1 |
| 157.5° | 3.7 | 11.2 | 22.4 | 29.9 | 37.3 |
| 160° | 3.7 | 11.2 | 18.7 | 26.1 | 33.6 |
| 162.5° | 3.7 | 11.2 | 18.7 | 22.4 | 26.1 |
| 165° | 3.7 | 7.5 | 14.9 | 18.7 | 22.4 |
| 167.5° | 3.7 | 7.5 | 11.2 | 14.9 | 18.7 |
| 170° | 3.7 | 7.5 | 11.2 | 11.2 | 14.9 |
| 172.5° | 3.7 | 7.5 | 7.5 | 7.5 | 7.5 |
| 175° | 7.5 | 7.5 | 7.5 | 7.5 | 3.7 |
| 177.5° | 7.5 | 7.5 | 7.5 | 3.7 | 3.7 |



TEST NUMBER: P568039

CATALOG NUMBER: 8SNX-82SL-LN-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|------|-----|-------|-----|-------|-----|
| 180° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |

(END OF REPORT)