

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: P567210

Luminaire Tested: **8SNX-114SL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-114SL-LC-UNV-L830-CD
Description: 8FT 11400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

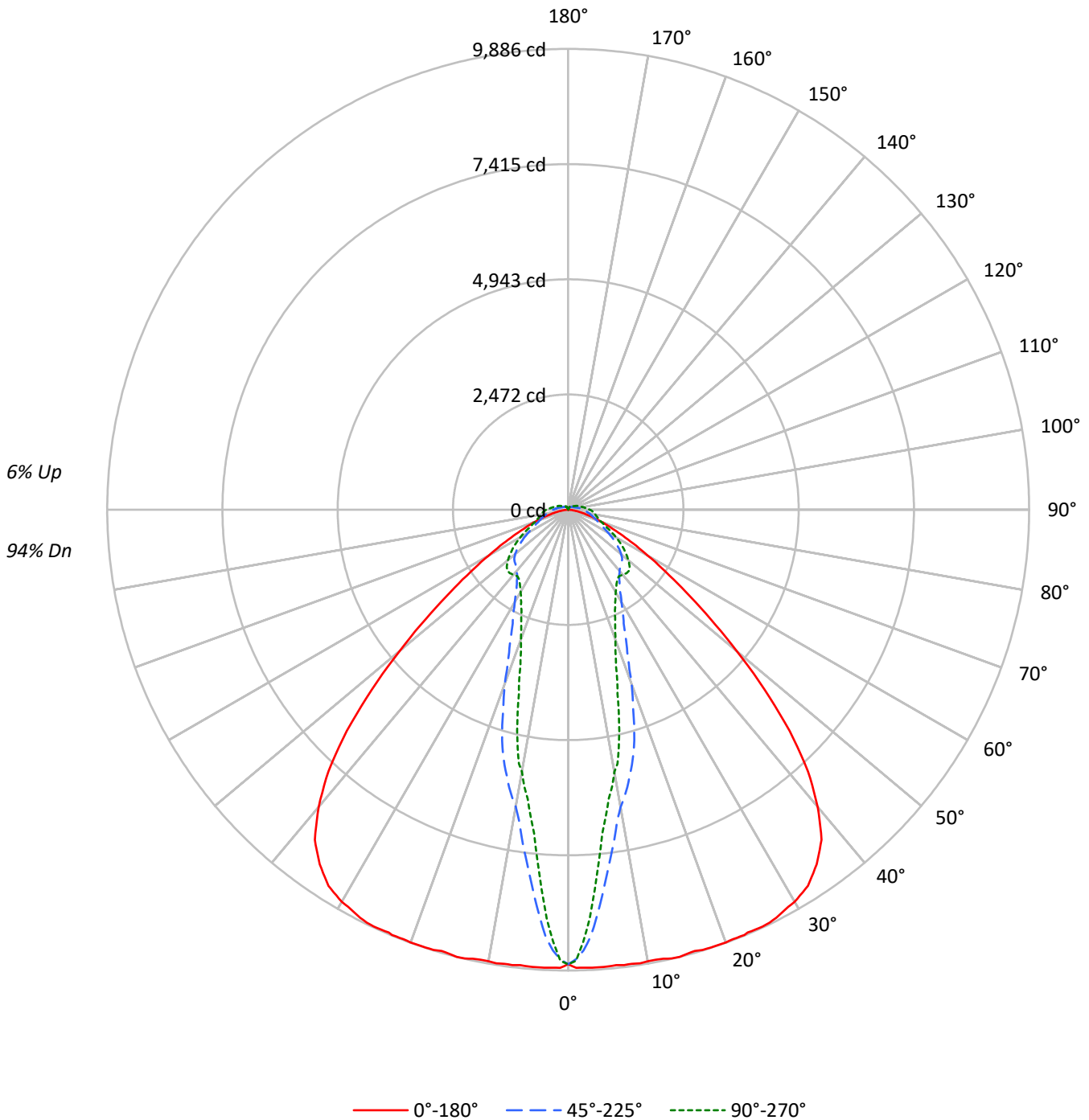
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12019.0 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 79.4
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

TEST NUMBER: P567210
CATALOG NUMBER: 8SNX-114SL-LC-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567210

CATALOG NUMBER: 8SNX-114SL-LC-UNV-L830-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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 | 94 | | | | |
| 1 | 108 | 103 | 99 | 96 | 105 | 101 | 97 | 94 | 95 | 92 | 90 | 90 | 88 | 86 | 86 | 84 | 82 | 80 | | | | |
| 2 | 99 | 92 | 86 | 80 | 96 | 89 | 84 | 79 | 85 | 80 | 76 | 81 | 77 | 74 | 77 | 74 | 71 | 69 | | | | |
| 3 | 92 | 82 | 75 | 69 | 89 | 80 | 73 | 68 | 76 | 71 | 66 | 73 | 68 | 64 | 70 | 66 | 62 | 60 | | | | |
| 4 | 85 | 74 | 66 | 60 | 82 | 72 | 65 | 59 | 69 | 63 | 58 | 66 | 61 | 56 | 63 | 59 | 55 | 53 | | | | |
| 5 | 79 | 67 | 59 | 53 | 76 | 66 | 58 | 52 | 63 | 56 | 51 | 60 | 55 | 50 | 58 | 53 | 49 | 47 | | | | |
| 6 | 73 | 61 | 53 | 47 | 71 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 45 | 53 | 48 | 44 | 42 | | | | |
| 7 | 69 | 56 | 48 | 43 | 67 | 55 | 48 | 42 | 53 | 46 | 42 | 51 | 45 | 41 | 50 | 44 | 40 | 38 | | | | |
| 8 | 64 | 52 | 44 | 39 | 63 | 51 | 44 | 39 | 49 | 43 | 38 | 48 | 42 | 37 | 46 | 41 | 37 | 35 | | | | |
| 9 | 61 | 48 | 41 | 36 | 59 | 47 | 40 | 35 | 46 | 39 | 35 | 44 | 39 | 34 | 43 | 38 | 34 | 32 | | | | |
| 10 | 57 | 45 | 38 | 33 | 56 | 44 | 37 | 33 | 43 | 37 | 32 | 42 | 36 | 32 | 40 | 35 | 31 | 30 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 52476 | 52476 | 52476 |
| 5° | 53046 | 43155 | 38580 |
| 10° | 53560 | 32616 | 27922 |
| 15° | 54640 | 26690 | 19334 |
| 20° | 56159 | 19333 | 13655 |
| 25° | 58032 | 13865 | 10743 |
| 30° | 59647 | 11089 | 9149 |
| 35° | 60149 | 9390 | 8194 |
| 40° | 57502 | 8545 | 8214 |
| 45° | 50057 | 8265 | 8438 |
| 50° | 38547 | 7869 | 7874 |
| 55° | 28062 | 6891 | 6987 |
| 60° | 20477 | 5759 | 5908 |
| 65° | 15017 | 4877 | 4842 |
| 70° | 11185 | 4316 | 4176 |
| 75° | 8080 | 4005 | 3892 |
| 80° | 5463 | 3760 | 3833 |
| 85° | 2763 | 3597 | 3839 |



TEST NUMBER: P567210

CATALOG NUMBER: 8SNX-114SL-LC-UNV-L830-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 766.8 | 6.4 |
| 10°-20° | 1665.1 | 13.9 |
| 20°-30° | 1906.0 | 15.9 |
| 30°-40° | 1909.4 | 15.9 |
| 40°-50° | 1807.5 | 15.0 |
| 50°-60° | 1386.2 | 11.5 |
| 60°-70° | 893.5 | 7.4 |
| 70°-80° | 569.8 | 4.7 |
| 80°-90° | 378.4 | 3.1 |
| 90°-100° | 254.3 | 2.1 |
| 100°-110° | 167.6 | 1.4 |
| 110°-120° | 116.6 | 1.0 |
| 120°-130° | 81.3 | 0.7 |
| 130°-140° | 56.5 | 0.5 |
| 140°-150° | 34.6 | 0.3 |
| 150°-160° | 17.5 | 0.1 |
| 160°-170° | 6.7 | 0.1 |
| 170°-180° | 1.3 | 0.0 |
| 0°-30° | 4337.9 | 36.1 |
| 0°-40° | 6247.3 | 52.0 |
| 0°-60° | 9440.9 | 78.6 |
| 0°-90° | 11282.6 | 93.9 |
| 90°-120° | 538.5 | 4.5 |
| 90°-150° | 710.9 | 5.9 |
| 90°-180° | 736.0 | 6.1 |
| 0°-180° | 12019.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 9750 | 9750 | 9750 | 9750 | 9750 | |
| 5° | 9837 | 9295 | 8328 | 7767 | 7558 | 939 |
| 15° | 9861 | 7102 | 5414 | 4447 | 4090 | 2797 |
| 25° | 9867 | 5026 | 2864 | 2488 | 2371 | 4549 |
| 35° | 9288 | 2796 | 1916 | 1854 | 1829 | 5763 |
| 45° | 6714 | 1768 | 1614 | 1786 | 1848 | 5105 |
| 55° | 3080 | 1263 | 1244 | 1398 | 1454 | 2832 |
| 65° | 1232 | 795 | 782 | 893 | 924 | 1267 |
| 75° | 419 | 431 | 542 | 622 | 653 | 460 |
| 85° | 55 | 197 | 382 | 499 | 536 | 76 |
| 90° | 0 | 136 | 320 | 444 | 462 | 3 |
| 95° | 0 | 99 | 265 | 363 | 382 | 0 |
| 105° | 0 | 74 | 172 | 246 | 265 | 4 |
| 115° | 6 | 62 | 129 | 179 | 191 | 6 |
| 125° | 6 | 55 | 111 | 129 | 136 | 6 |
| 135° | 6 | 43 | 86 | 105 | 111 | 5 |
| 145° | 6 | 31 | 62 | 80 | 86 | 4 |
| 155° | 6 | 18 | 37 | 55 | 62 | 3 |
| 165° | 12 | 12 | 25 | 31 | 37 | 3 |
| 175° | 12 | 12 | 12 | 12 | 6 | 1 |
| 180° | 12 | 12 | 12 | 12 | 12 | |



TEST NUMBER: P567210

CATALOG NUMBER: 8SNX-114SL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 9750.4 | 9750.4 | 9750.4 | 9750.4 | 9750.4 |
| 1° | 9830.5 | 9775.0 | 9645.7 | 9682.6 | 9676.5 |
| 2° | 9830.5 | 9713.4 | 9460.9 | 9387.0 | 9276.1 |
| 3° | 9836.6 | 9608.7 | 9177.6 | 8937.3 | 8783.4 |
| 4° | 9836.6 | 9454.7 | 8758.7 | 8358.4 | 8161.3 |
| 5° | 9836.6 | 9294.6 | 8327.6 | 7767.1 | 7557.6 |
| 6° | 9824.3 | 9103.7 | 7890.2 | 7298.9 | 6984.8 |
| 7° | 9842.8 | 8894.2 | 7496.0 | 6861.6 | 6615.2 |
| 8° | 9836.6 | 8647.9 | 7132.6 | 6529.0 | 6258.0 |
| 9° | 9855.1 | 8407.6 | 6738.4 | 6214.9 | 6011.6 |
| 10° | 9836.6 | 8185.9 | 6479.7 | 5919.2 | 5709.8 |
| 11° | 9836.6 | 7970.3 | 6294.9 | 5728.3 | 5549.7 |
| 12° | 9848.9 | 7723.9 | 6091.7 | 5457.3 | 5210.9 |
| 13° | 9879.7 | 7471.4 | 5857.6 | 5161.6 | 4872.1 |
| 14° | 9885.9 | 7280.5 | 5642.0 | 4785.9 | 4484.1 |
| 15° | 9861.3 | 7101.8 | 5414.1 | 4447.1 | 4089.9 |
| 16° | 9848.9 | 6917.1 | 5143.1 | 4126.8 | 3806.5 |
| 17° | 9873.6 | 6701.5 | 4835.2 | 3800.4 | 3504.7 |
| 18° | 9879.7 | 6504.4 | 4508.7 | 3554.0 | 3295.3 |
| 19° | 9879.7 | 6350.4 | 4243.9 | 3326.1 | 3104.4 |
| 20° | 9879.7 | 6202.6 | 3972.8 | 3153.6 | 2962.7 |
| 21° | 9867.4 | 6017.8 | 3664.9 | 2975.0 | 2814.9 |
| 22.5° | 9873.6 | 5672.8 | 3313.8 | 2765.6 | 2636.2 |
| 23° | 9855.1 | 5586.6 | 3227.5 | 2710.2 | 2574.6 |
| 24° | 9861.3 | 5340.2 | 3042.8 | 2599.3 | 2469.9 |
| 25° | 9867.4 | 5026.1 | 2864.1 | 2488.4 | 2371.4 |
| 26° | 9855.1 | 4773.6 | 2716.3 | 2383.7 | 2303.6 |
| 27° | 9824.3 | 4570.3 | 2611.6 | 2297.5 | 2223.6 |
| 28° | 9781.2 | 4299.3 | 2500.7 | 2223.6 | 2155.8 |
| 29° | 9738.1 | 3991.3 | 2389.9 | 2143.5 | 2094.2 |
| 30° | 9713.4 | 3744.9 | 2285.2 | 2081.9 | 2038.8 |
| 32.5° | 9565.6 | 3258.3 | 2069.6 | 1958.7 | 1921.7 |
| 35° | 9288.4 | 2796.4 | 1915.6 | 1854.0 | 1829.4 |
| 37.5° | 8925.0 | 2439.1 | 1798.6 | 1786.2 | 1792.4 |
| 40° | 8327.6 | 2155.8 | 1712.3 | 1767.8 | 1823.2 |
| 42.5° | 7613.1 | 1934.1 | 1650.7 | 1786.2 | 1847.8 |
| 45° | 6713.8 | 1767.8 | 1613.8 | 1786.2 | 1847.8 |
| 47.5° | 5716.0 | 1632.3 | 1570.7 | 1724.6 | 1786.2 |
| 50° | 4718.1 | 1509.1 | 1484.4 | 1632.3 | 1687.7 |
| 52.5° | 3837.3 | 1392.0 | 1373.6 | 1515.2 | 1570.7 |
| 55° | 3079.7 | 1262.7 | 1244.2 | 1398.2 | 1453.6 |
| 57.5° | 2469.9 | 1139.5 | 1121.0 | 1262.7 | 1318.1 |
| 60° | 1971.0 | 1016.3 | 985.5 | 1127.2 | 1182.6 |
| 62.5° | 1570.7 | 899.3 | 880.8 | 1004.0 | 1053.3 |
| 65° | 1231.9 | 794.6 | 782.2 | 893.1 | 923.9 |



TEST NUMBER: P567210

CATALOG NUMBER: 8SNX-114SL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 67.5° | 973.2 | 696.0 | 702.2 | 794.6 | 831.5 |
| 70° | 751.5 | 603.6 | 640.6 | 726.8 | 751.5 |
| 72.5° | 566.7 | 511.2 | 591.3 | 665.2 | 696.0 |
| 75° | 418.8 | 431.2 | 542.0 | 622.1 | 652.9 |
| 77.5° | 289.5 | 357.2 | 498.9 | 585.1 | 615.9 |
| 80° | 197.1 | 289.5 | 455.8 | 554.3 | 591.3 |
| 82.5° | 117.0 | 240.2 | 418.8 | 523.6 | 566.7 |
| 85° | 55.4 | 197.1 | 381.9 | 498.9 | 535.9 |
| 87.5° | 18.5 | 160.1 | 344.9 | 474.3 | 505.1 |
| 90° | 0.0 | 135.5 | 320.3 | 443.5 | 462.0 |
| 92.5° | 0.0 | 117.0 | 289.5 | 406.5 | 418.8 |
| 95° | 0.0 | 98.6 | 264.9 | 363.4 | 381.9 |
| 97.5° | 0.0 | 92.4 | 246.4 | 326.5 | 351.1 |
| 100° | 0.0 | 86.2 | 221.7 | 295.7 | 320.3 |
| 102.5° | 0.0 | 73.9 | 197.1 | 264.9 | 289.5 |
| 105° | 0.0 | 73.9 | 172.5 | 246.4 | 264.9 |
| 107.5° | 6.2 | 67.8 | 160.1 | 221.7 | 246.4 |
| 110° | 6.2 | 67.8 | 141.7 | 209.4 | 227.9 |
| 112.5° | 6.2 | 67.8 | 135.5 | 190.9 | 215.6 |
| 115° | 6.2 | 61.6 | 129.3 | 178.6 | 190.9 |
| 117.5° | 6.2 | 61.6 | 123.2 | 160.1 | 172.5 |
| 120° | 6.2 | 55.4 | 117.0 | 147.8 | 154.0 |
| 122.5° | 6.2 | 55.4 | 110.9 | 135.5 | 141.7 |
| 125° | 6.2 | 55.4 | 110.9 | 129.3 | 135.5 |
| 127.5° | 6.2 | 49.3 | 104.7 | 123.2 | 123.2 |
| 130° | 6.2 | 49.3 | 98.6 | 117.0 | 117.0 |
| 132.5° | 6.2 | 43.1 | 92.4 | 110.9 | 117.0 |
| 135° | 6.2 | 43.1 | 86.2 | 104.7 | 110.9 |
| 137.5° | 6.2 | 37.0 | 80.1 | 98.6 | 104.7 |
| 140° | 6.2 | 37.0 | 73.9 | 92.4 | 98.6 |
| 142.5° | 6.2 | 30.8 | 67.8 | 86.2 | 92.4 |
| 145° | 6.2 | 30.8 | 61.6 | 80.1 | 86.2 |
| 147.5° | 6.2 | 30.8 | 55.4 | 73.9 | 80.1 |
| 150° | 6.2 | 24.6 | 49.3 | 67.8 | 73.9 |
| 152.5° | 6.2 | 24.6 | 43.1 | 61.6 | 67.8 |
| 155° | 6.2 | 18.5 | 37.0 | 55.4 | 61.6 |
| 157.5° | 6.2 | 18.5 | 37.0 | 49.3 | 55.4 |
| 160° | 12.3 | 18.5 | 30.8 | 43.1 | 49.3 |
| 162.5° | 6.2 | 12.3 | 30.8 | 37.0 | 43.1 |
| 165° | 12.3 | 12.3 | 24.6 | 30.8 | 37.0 |
| 167.5° | 12.3 | 12.3 | 18.5 | 24.6 | 30.8 |
| 170° | 12.3 | 12.3 | 18.5 | 18.5 | 24.6 |
| 172.5° | 12.3 | 12.3 | 12.3 | 18.5 | 12.3 |
| 175° | 12.3 | 12.3 | 12.3 | 12.3 | 6.2 |
| 177.5° | 12.3 | 12.3 | 12.3 | 12.3 | 6.2 |



TEST NUMBER: P567210

CATALOG NUMBER: 8SNX-114SL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|------|------|-------|------|-------|------|
| 180° | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 |

(END OF REPORT)