

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: P568121

Luminaire Tested: **8SNX-96SL-FDL-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P568121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-96SL-FDL-UNV-L950-CD
Description: 8FT 9600 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

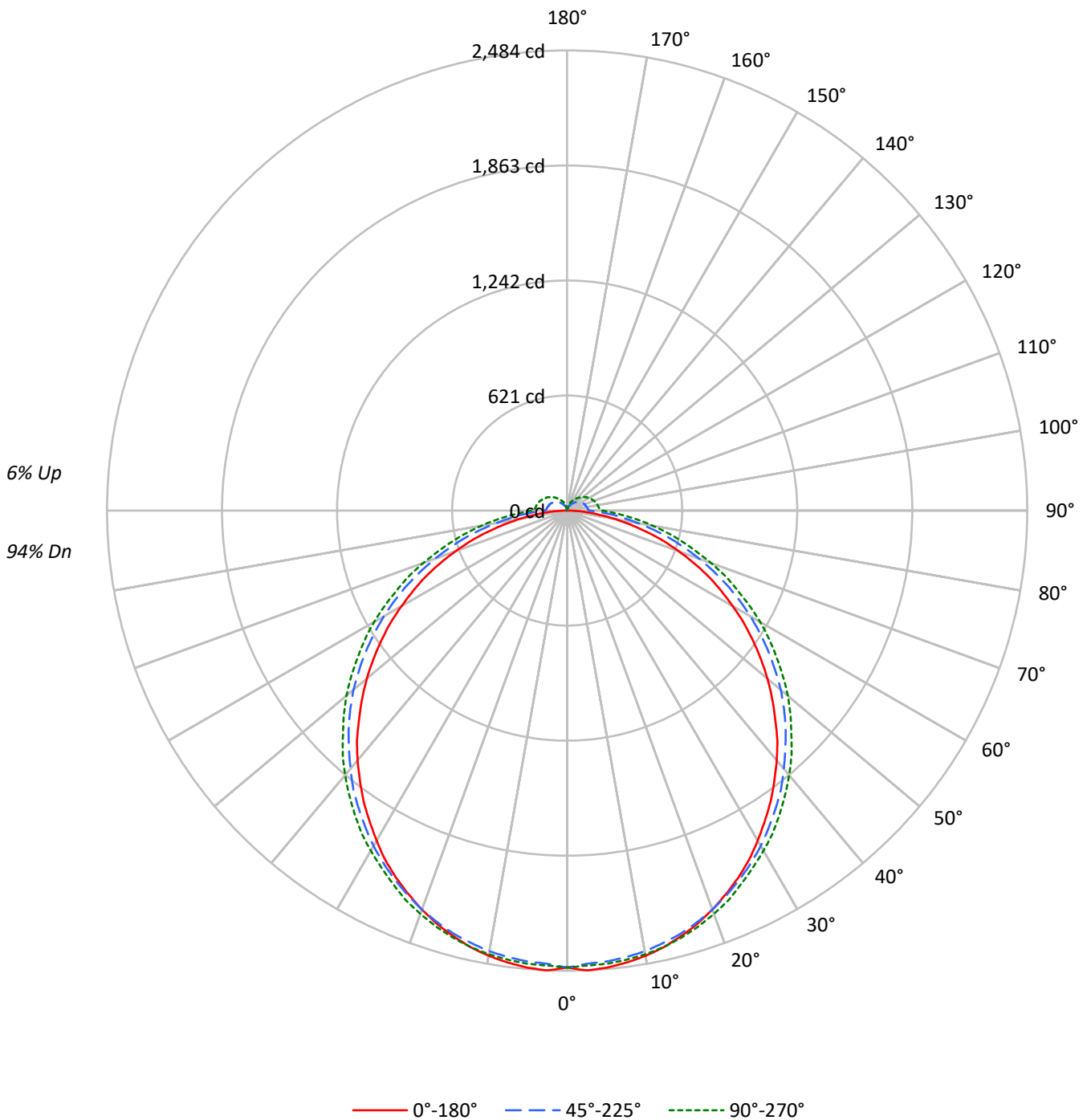
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7838.1 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Direct

Input Watts (W): 64.2
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

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CATALOG NUMBER: 8SNX-96SL-FDL-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P568121

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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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 94 |
| 1 | 107 | 102 | 97 | 93 | 103 | 99 | 95 | 91 | 93 | 90 | 87 | 88 | 86 | 83 | 84 | 82 | 80 | 77 |
| 2 | 97 | 88 | 81 | 75 | 93 | 86 | 79 | 74 | 81 | 76 | 71 | 77 | 73 | 69 | 73 | 69 | 66 | 64 |
| 3 | 88 | 77 | 69 | 62 | 85 | 75 | 67 | 61 | 71 | 65 | 59 | 68 | 62 | 57 | 64 | 60 | 56 | 53 |
| 4 | 80 | 68 | 59 | 52 | 78 | 66 | 58 | 52 | 63 | 56 | 50 | 60 | 54 | 49 | 57 | 52 | 48 | 45 |
| 5 | 74 | 61 | 52 | 45 | 71 | 59 | 51 | 44 | 56 | 49 | 43 | 54 | 47 | 42 | 51 | 46 | 41 | 39 |
| 6 | 68 | 55 | 46 | 39 | 66 | 53 | 45 | 39 | 51 | 43 | 38 | 49 | 42 | 37 | 47 | 41 | 36 | 34 |
| 7 | 63 | 49 | 41 | 34 | 61 | 48 | 40 | 34 | 46 | 39 | 33 | 44 | 38 | 33 | 43 | 37 | 32 | 30 |
| 8 | 59 | 45 | 36 | 31 | 57 | 44 | 36 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 39 | 33 | 29 | 27 |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 33 | 27 | 39 | 32 | 27 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |
| 10 | 51 | 38 | 30 | 25 | 50 | 37 | 30 | 25 | 36 | 29 | 24 | 35 | 28 | 24 | 33 | 28 | 24 | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13275 | 13275 | 13275 |
| 5° | 13372 | 13059 | 13075 |
| 10° | 13323 | 12922 | 12910 |
| 15° | 13229 | 12762 | 12726 |
| 20° | 13100 | 12569 | 12509 |
| 25° | 12950 | 12356 | 12252 |
| 30° | 12745 | 12139 | 12016 |
| 35° | 12539 | 11883 | 11768 |
| 40° | 12311 | 11601 | 11490 |
| 45° | 12023 | 11323 | 11165 |
| 50° | 11746 | 11004 | 10869 |
| 55° | 11402 | 10609 | 10457 |
| 60° | 11017 | 10157 | 10052 |
| 65° | 10611 | 9619 | 9492 |
| 70° | 9906 | 8940 | 8914 |
| 75° | 9061 | 8141 | 8221 |
| 80° | 7815 | 7080 | 7454 |
| 85° | 6312 | 6170 | 6549 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 233.9 | 3.0 |
| 10°-20° | 671.2 | 8.6 |
| 20°-30° | 1017.2 | 13.0 |
| 30°-40° | 1227.9 | 15.7 |
| 40°-50° | 1282.3 | 16.4 |
| 50°-60° | 1178.0 | 15.0 |
| 60°-70° | 931.6 | 11.9 |
| 70°-80° | 589.6 | 7.5 |
| 80°-90° | 253.4 | 3.2 |
| 90°-100° | 111.5 | 1.4 |
| 100°-110° | 99.8 | 1.3 |
| 110°-120° | 84.3 | 1.1 |
| 120°-130° | 65.7 | 0.8 |
| 130°-140° | 45.5 | 0.6 |
| 140°-150° | 27.3 | 0.3 |
| 150°-160° | 13.3 | 0.2 |
| 160°-170° | 4.6 | 0.1 |
| 170°-180° | 0.7 | 0.0 |
| 0°-30° | 1922.3 | 24.5 |
| 0°-40° | 3150.3 | 40.2 |
| 0°-60° | 5610.6 | 71.6 |
| 0°-90° | 7385.2 | 94.2 |
| 90°-120° | 295.7 | 3.8 |
| 90°-150° | 434.3 | 5.5 |
| 90°-180° | 453.0 | 5.8 |
| 0°-180° | 7838.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2466 | 2466 | 2466 | 2466 | 2466 | |
| 5° | 2476 | 2469 | 2443 | 2464 | 2455 | 235 |
| 15° | 2378 | 2378 | 2365 | 2390 | 2386 | 671 |
| 25° | 2186 | 2196 | 2199 | 2228 | 2224 | 1007 |
| 35° | 1915 | 1938 | 1963 | 1993 | 2000 | 1197 |
| 45° | 1588 | 1627 | 1668 | 1700 | 1711 | 1226 |
| 55° | 1224 | 1274 | 1327 | 1370 | 1380 | 1095 |
| 65° | 842 | 890 | 952 | 997 | 1012 | 830 |
| 75° | 444 | 497 | 569 | 618 | 641 | 471 |
| 85° | 108 | 167 | 239 | 290 | 308 | 120 |
| 90° | 7 | 60 | 122 | 171 | 189 | 9 |
| 95° | 1 | 51 | 111 | 156 | 172 | 1 |
| 105° | 1 | 47 | 104 | 146 | 161 | 1 |
| 115° | 1 | 40 | 94 | 132 | 146 | 2 |
| 125° | 3 | 36 | 79 | 114 | 126 | 3 |
| 135° | 3 | 28 | 64 | 90 | 101 | 2 |
| 145° | 3 | 21 | 44 | 68 | 75 | 2 |
| 155° | 3 | 14 | 29 | 43 | 51 | 1 |
| 165° | 4 | 10 | 15 | 21 | 29 | 1 |
| 175° | 4 | 6 | 7 | 7 | 4 | 0 |
| 180° | 4 | 4 | 4 | 4 | 4 | |



TEST NUMBER: P568121

CATALOG NUMBER: 8SNX-96SL-FDL-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2466.5 | 2466.5 | 2466.5 | 2466.5 | 2466.5 |
| 2.5° | 2484.5 | 2476.2 | 2448.4 | 2467.9 | 2458.1 |
| 5° | 2476.2 | 2469.2 | 2442.9 | 2463.7 | 2455.4 |
| 7.5° | 2460.9 | 2455.4 | 2431.8 | 2454.0 | 2445.7 |
| 10° | 2440.1 | 2435.9 | 2415.1 | 2437.3 | 2431.8 |
| 12.5° | 2413.7 | 2412.3 | 2391.5 | 2416.5 | 2412.3 |
| 15° | 2377.6 | 2377.6 | 2365.1 | 2390.1 | 2386.0 |
| 17.5° | 2338.8 | 2340.2 | 2330.4 | 2356.8 | 2354.0 |
| 20° | 2291.6 | 2298.5 | 2291.6 | 2319.3 | 2316.6 |
| 22.5° | 2240.2 | 2249.9 | 2247.2 | 2274.9 | 2276.3 |
| 25° | 2186.1 | 2195.8 | 2198.6 | 2227.7 | 2223.6 |
| 27.5° | 2126.4 | 2141.7 | 2147.2 | 2173.6 | 2172.2 |
| 30° | 2057.0 | 2077.8 | 2090.3 | 2112.5 | 2119.5 |
| 32.5° | 1986.2 | 2011.2 | 2026.5 | 2057.0 | 2065.3 |
| 35° | 1915.4 | 1937.6 | 1962.6 | 1993.2 | 2000.1 |
| 37.5° | 1837.7 | 1862.7 | 1896.0 | 1925.2 | 1933.5 |
| 40° | 1760.0 | 1787.7 | 1819.7 | 1851.6 | 1864.1 |
| 42.5° | 1679.5 | 1708.6 | 1743.3 | 1780.8 | 1793.3 |
| 45° | 1587.9 | 1626.7 | 1668.4 | 1700.3 | 1711.4 |
| 47.5° | 1500.4 | 1543.5 | 1587.9 | 1622.6 | 1635.1 |
| 50° | 1411.6 | 1457.4 | 1504.6 | 1536.5 | 1555.9 |
| 52.5° | 1318.6 | 1368.6 | 1415.8 | 1456.0 | 1468.5 |
| 55° | 1224.2 | 1274.2 | 1326.9 | 1370.0 | 1379.7 |
| 57.5° | 1132.6 | 1181.2 | 1233.9 | 1274.2 | 1293.6 |
| 60° | 1032.7 | 1085.4 | 1142.3 | 1182.6 | 1203.4 |
| 62.5° | 935.5 | 986.9 | 1047.9 | 1091.0 | 1107.6 |
| 65° | 842.5 | 889.7 | 952.2 | 996.6 | 1011.8 |
| 67.5° | 739.8 | 793.9 | 853.6 | 905.0 | 924.4 |
| 70° | 638.5 | 689.8 | 757.8 | 806.4 | 825.9 |
| 72.5° | 544.1 | 594.1 | 662.1 | 710.7 | 728.7 |
| 75° | 444.2 | 496.9 | 569.1 | 617.7 | 641.3 |
| 77.5° | 348.4 | 406.7 | 476.1 | 528.8 | 555.2 |
| 80° | 259.6 | 310.9 | 385.9 | 444.2 | 467.8 |
| 82.5° | 176.3 | 231.8 | 309.5 | 363.7 | 390.0 |
| 85° | 108.3 | 166.6 | 238.7 | 290.1 | 308.1 |
| 87.5° | 51.4 | 106.9 | 173.5 | 223.5 | 245.7 |
| 90° | 6.9 | 59.7 | 122.1 | 170.7 | 188.8 |
| 92.5° | 1.4 | 51.4 | 112.4 | 158.2 | 174.9 |
| 95° | 1.4 | 51.4 | 111.0 | 155.5 | 172.1 |
| 97.5° | 1.4 | 50.0 | 109.7 | 154.1 | 169.3 |
| 100° | 1.4 | 48.6 | 108.3 | 151.3 | 167.9 |
| 102.5° | 1.4 | 48.6 | 105.5 | 148.5 | 163.8 |
| 105° | 1.4 | 47.2 | 104.1 | 145.7 | 161.0 |
| 107.5° | 1.4 | 45.8 | 101.3 | 143.0 | 158.2 |
| 110° | 1.4 | 43.0 | 99.9 | 138.8 | 154.1 |



TEST NUMBER: P568121

CATALOG NUMBER: 8SNX-96SL-FDL-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 1.4 | 41.6 | 97.2 | 136.0 | 149.9 |
| 115° | 1.4 | 40.3 | 94.4 | 131.9 | 145.7 |
| 117.5° | 1.4 | 38.9 | 90.2 | 127.7 | 141.6 |
| 120° | 2.8 | 38.9 | 87.4 | 123.5 | 136.0 |
| 122.5° | 2.8 | 37.5 | 83.3 | 118.0 | 130.5 |
| 125° | 2.8 | 36.1 | 79.1 | 113.8 | 126.3 |
| 127.5° | 2.8 | 34.7 | 75.0 | 108.3 | 119.4 |
| 130° | 2.8 | 31.9 | 72.2 | 102.7 | 113.8 |
| 132.5° | 2.8 | 30.5 | 68.0 | 95.8 | 106.9 |
| 135° | 2.8 | 27.8 | 63.8 | 90.2 | 101.3 |
| 137.5° | 2.8 | 26.4 | 59.7 | 84.7 | 94.4 |
| 140° | 2.8 | 25.0 | 54.1 | 79.1 | 88.8 |
| 142.5° | 2.8 | 22.2 | 50.0 | 73.6 | 81.9 |
| 145° | 2.8 | 20.8 | 44.4 | 68.0 | 75.0 |
| 147.5° | 2.8 | 18.0 | 40.3 | 62.5 | 69.4 |
| 150° | 2.8 | 16.7 | 36.1 | 56.9 | 63.8 |
| 152.5° | 2.8 | 15.3 | 31.9 | 50.0 | 56.9 |
| 155° | 2.8 | 13.9 | 29.1 | 43.0 | 51.4 |
| 157.5° | 2.8 | 12.5 | 25.0 | 37.5 | 45.8 |
| 160° | 4.2 | 11.1 | 22.2 | 31.9 | 38.9 |
| 162.5° | 4.2 | 9.7 | 18.0 | 26.4 | 34.7 |
| 165° | 4.2 | 9.7 | 15.3 | 20.8 | 29.1 |
| 167.5° | 4.2 | 8.3 | 12.5 | 16.7 | 23.6 |
| 170° | 4.2 | 6.9 | 11.1 | 12.5 | 18.0 |
| 172.5° | 4.2 | 5.6 | 8.3 | 8.3 | 9.7 |
| 175° | 4.2 | 5.6 | 6.9 | 6.9 | 4.2 |
| 177.5° | 4.2 | 4.2 | 4.2 | 4.2 | 2.8 |
| 180° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |

(END OF REPORT)