

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: P565947

Luminaire Tested: **4SNX-100HL-FDL-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-100HL-FDL-UNV-L935-CD
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

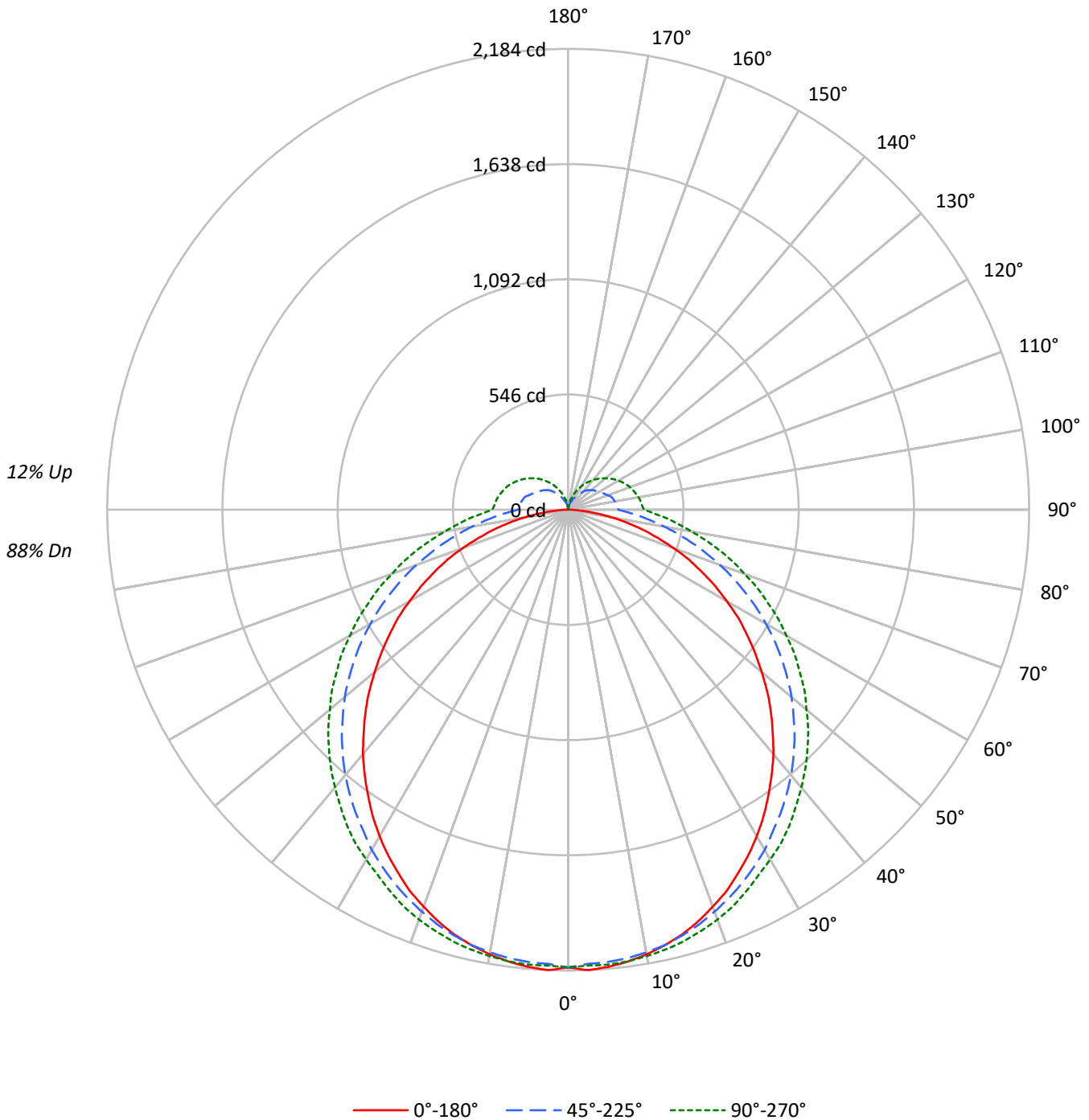
Lumens per Lamp: N/A
Luminaire Lumens: 7810.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 72.5
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: 4SNX-100HL-FDL-UNV-L935-CD

Luminous Intensity Polar Plot





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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 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 91 | 91 | 91 | 88 |
| 1 | 105 | 99 | 95 | 90 | 101 | 96 | 92 | 88 | 89 | 86 | 83 | 84 | 81 | 78 | 78 | 76 | 74 | 71 |
| 2 | 95 | 86 | 79 | 72 | 91 | 83 | 76 | 71 | 77 | 72 | 67 | 72 | 68 | 64 | 68 | 64 | 61 | 58 |
| 3 | 86 | 75 | 66 | 60 | 82 | 72 | 65 | 58 | 68 | 61 | 56 | 63 | 58 | 53 | 59 | 55 | 51 | 48 |
| 4 | 78 | 66 | 57 | 50 | 75 | 64 | 56 | 49 | 60 | 53 | 47 | 56 | 50 | 45 | 53 | 48 | 43 | 41 |
| 5 | 72 | 59 | 50 | 43 | 69 | 57 | 48 | 42 | 54 | 46 | 41 | 50 | 44 | 39 | 47 | 42 | 38 | 35 |
| 6 | 66 | 53 | 44 | 37 | 64 | 51 | 43 | 37 | 48 | 41 | 35 | 45 | 39 | 34 | 43 | 37 | 33 | 31 |
| 7 | 61 | 48 | 39 | 33 | 59 | 46 | 38 | 32 | 44 | 36 | 31 | 41 | 35 | 30 | 39 | 33 | 29 | 27 |
| 8 | 57 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 40 | 33 | 28 | 38 | 31 | 27 | 36 | 30 | 26 | 24 |
| 9 | 53 | 40 | 32 | 26 | 51 | 39 | 31 | 26 | 37 | 30 | 25 | 35 | 29 | 24 | 33 | 27 | 23 | 21 |
| 10 | 50 | 37 | 29 | 23 | 48 | 36 | 28 | 23 | 34 | 27 | 22 | 32 | 26 | 22 | 31 | 25 | 21 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 23350 | 23350 | 23350 |
| 5° | 23476 | 22999 | 23046 |
| 10° | 23346 | 22783 | 22806 |
| 15° | 23155 | 22524 | 22585 |
| 20° | 22847 | 22212 | 22330 |
| 25° | 22478 | 21896 | 21990 |
| 30° | 22076 | 21579 | 21700 |
| 35° | 21565 | 21199 | 21497 |
| 40° | 21070 | 20884 | 21186 |
| 45° | 20471 | 20517 | 20923 |
| 50° | 19777 | 20132 | 20591 |
| 55° | 19116 | 19653 | 20294 |
| 60° | 18355 | 19142 | 19930 |
| 65° | 17427 | 18556 | 19574 |
| 70° | 16246 | 17913 | 19171 |
| 75° | 14564 | 17210 | 19033 |
| 80° | 12209 | 16775 | 18881 |
| 85° | 8851 | 17119 | 19900 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 205.9 | 2.6 |
| 10°-20° | 592.4 | 7.6 |
| 20°-30° | 901.2 | 11.5 |
| 30°-40° | 1095.8 | 14.0 |
| 40°-50° | 1159.3 | 14.8 |
| 50°-60° | 1086.7 | 13.9 |
| 60°-70° | 894.0 | 11.4 |
| 70°-80° | 618.6 | 7.9 |
| 80°-90° | 344.0 | 4.4 |
| 90°-100° | 226.6 | 2.9 |
| 100°-110° | 203.2 | 2.6 |
| 110°-120° | 168.2 | 2.2 |
| 120°-130° | 130.0 | 1.7 |
| 130°-140° | 92.0 | 1.2 |
| 140°-150° | 55.5 | 0.7 |
| 150°-160° | 26.7 | 0.3 |
| 160°-170° | 8.7 | 0.1 |
| 170°-180° | 1.1 | 0.0 |
| 0°-30° | 1699.6 | 21.8 |
| 0°-40° | 2795.4 | 35.8 |
| 0°-60° | 5041.4 | 64.6 |
| 0°-90° | 6898.0 | 88.3 |
| 90°-120° | 598.0 | 7.7 |
| 90°-150° | 875.6 | 11.2 |
| 90°-180° | 912.0 | 11.7 |
| 0°-180° | 7810.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2169 | 2169 | 2169 | 2169 | 2169 | |
| 5° | 2175 | 2171 | 2152 | 2169 | 2164 | 206 |
| 15° | 2084 | 2090 | 2089 | 2117 | 2117 | 587 |
| 25° | 1902 | 1929 | 1951 | 1994 | 1995 | 877 |
| 35° | 1653 | 1697 | 1755 | 1811 | 1827 | 1035 |
| 45° | 1359 | 1430 | 1517 | 1585 | 1604 | 1047 |
| 55° | 1034 | 1126 | 1234 | 1312 | 1339 | 925 |
| 65° | 700 | 800 | 924 | 1015 | 1043 | 694 |
| 75° | 364 | 469 | 607 | 704 | 742 | 386 |
| 85° | 80 | 199 | 337 | 431 | 468 | 92 |
| 90° | 1 | 112 | 238 | 328 | 360 | 5 |
| 95° | 1 | 107 | 231 | 317 | 348 | 1 |
| 105° | 1 | 92 | 217 | 298 | 325 | 1 |
| 115° | 3 | 80 | 183 | 265 | 294 | 2 |
| 125° | 3 | 68 | 156 | 226 | 254 | 2 |
| 135° | 3 | 54 | 131 | 186 | 209 | 2 |
| 145° | 3 | 39 | 91 | 140 | 158 | 2 |
| 155° | 4 | 27 | 56 | 90 | 104 | 2 |
| 165° | 4 | 17 | 31 | 42 | 54 | 1 |
| 175° | 4 | 7 | 9 | 9 | 5 | 0 |
| 180° | 3 | 3 | 3 | 3 | 3 | |



TEST NUMBER: P565947

CATALOG NUMBER: 4SNX-100HL-FDL-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2169.3 | 2169.3 | 2169.3 | 2169.3 | 2169.3 |
| 2.5° | 2184.0 | 2177.3 | 2154.6 | 2169.3 | 2162.6 |
| 5° | 2174.7 | 2170.7 | 2151.9 | 2169.3 | 2164.0 |
| 7.5° | 2160.0 | 2158.6 | 2143.9 | 2164.0 | 2158.6 |
| 10° | 2139.9 | 2142.6 | 2130.5 | 2151.9 | 2147.9 |
| 12.5° | 2114.5 | 2118.5 | 2113.1 | 2137.2 | 2134.5 |
| 15° | 2083.7 | 2090.4 | 2089.1 | 2117.2 | 2117.2 |
| 17.5° | 2046.3 | 2055.6 | 2061.0 | 2093.1 | 2093.1 |
| 20° | 2002.1 | 2016.8 | 2027.5 | 2062.3 | 2067.7 |
| 22.5° | 1958.0 | 1975.4 | 1991.4 | 2027.5 | 2035.6 |
| 25° | 1901.8 | 1928.6 | 1951.3 | 1994.1 | 1995.4 |
| 27.5° | 1847.0 | 1876.4 | 1907.2 | 1948.6 | 1952.7 |
| 30° | 1786.8 | 1824.3 | 1861.7 | 1901.8 | 1913.9 |
| 32.5° | 1722.6 | 1764.1 | 1805.5 | 1859.0 | 1875.1 |
| 35° | 1653.1 | 1697.2 | 1754.7 | 1810.9 | 1826.9 |
| 37.5° | 1583.5 | 1633.0 | 1699.9 | 1757.4 | 1772.1 |
| 40° | 1512.6 | 1567.5 | 1642.4 | 1701.2 | 1718.6 |
| 42.5° | 1433.7 | 1500.6 | 1580.8 | 1643.7 | 1663.8 |
| 45° | 1358.8 | 1429.7 | 1516.6 | 1584.9 | 1603.6 |
| 47.5° | 1279.9 | 1354.8 | 1448.4 | 1520.7 | 1542.1 |
| 50° | 1195.7 | 1281.3 | 1381.6 | 1453.8 | 1473.9 |
| 52.5° | 1116.8 | 1203.7 | 1309.3 | 1384.2 | 1412.3 |
| 55° | 1033.8 | 1126.1 | 1234.5 | 1312.0 | 1338.8 |
| 57.5° | 956.3 | 1044.5 | 1160.9 | 1238.5 | 1271.9 |
| 60° | 868.0 | 965.6 | 1082.0 | 1166.2 | 1193.0 |
| 62.5° | 785.1 | 884.0 | 1004.4 | 1091.3 | 1122.1 |
| 65° | 699.5 | 799.8 | 924.2 | 1015.1 | 1043.2 |
| 67.5° | 619.2 | 718.2 | 845.3 | 934.9 | 971.0 |
| 70° | 531.0 | 635.3 | 765.0 | 857.3 | 888.1 |
| 72.5° | 444.0 | 552.4 | 684.8 | 783.7 | 818.5 |
| 75° | 363.8 | 469.4 | 607.2 | 703.5 | 742.3 |
| 77.5° | 286.2 | 393.2 | 532.3 | 631.3 | 664.7 |
| 80° | 208.6 | 321.0 | 462.8 | 560.4 | 592.5 |
| 82.5° | 137.8 | 255.4 | 395.9 | 493.5 | 528.3 |
| 85° | 80.2 | 199.3 | 337.0 | 430.7 | 468.1 |
| 87.5° | 34.8 | 151.1 | 282.2 | 374.5 | 405.2 |
| 90° | 1.3 | 112.3 | 238.1 | 327.7 | 359.8 |
| 92.5° | 1.3 | 109.7 | 232.7 | 321.0 | 351.7 |
| 95° | 1.3 | 107.0 | 231.4 | 317.0 | 347.7 |
| 97.5° | 1.3 | 105.7 | 228.7 | 314.3 | 343.7 |
| 100° | 1.3 | 101.6 | 224.7 | 308.9 | 338.4 |
| 102.5° | 1.3 | 96.3 | 220.7 | 303.6 | 331.7 |
| 105° | 1.3 | 92.3 | 216.7 | 298.2 | 325.0 |
| 107.5° | 1.3 | 88.3 | 210.0 | 291.6 | 318.3 |
| 110° | 1.3 | 84.3 | 199.3 | 284.9 | 311.6 |



TEST NUMBER: P565947

CATALOG NUMBER: 4SNX-100HL-FDL-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 1.3 | 82.9 | 191.3 | 275.5 | 303.6 |
| 115° | 2.7 | 80.2 | 183.2 | 264.8 | 294.2 |
| 117.5° | 2.7 | 78.9 | 176.5 | 254.1 | 284.9 |
| 120° | 2.7 | 74.9 | 169.9 | 244.8 | 274.2 |
| 122.5° | 2.7 | 70.9 | 163.2 | 235.4 | 264.8 |
| 125° | 2.7 | 68.2 | 156.5 | 226.0 | 254.1 |
| 127.5° | 2.7 | 64.2 | 151.1 | 216.7 | 242.1 |
| 130° | 2.7 | 61.5 | 144.4 | 206.0 | 231.4 |
| 132.5° | 2.7 | 57.5 | 137.8 | 195.3 | 219.3 |
| 135° | 2.7 | 53.5 | 131.1 | 185.9 | 208.6 |
| 137.5° | 2.7 | 48.1 | 123.0 | 175.2 | 196.6 |
| 140° | 2.7 | 44.1 | 112.3 | 164.5 | 184.6 |
| 142.5° | 2.7 | 41.5 | 101.6 | 152.5 | 171.2 |
| 145° | 2.7 | 38.8 | 90.9 | 140.4 | 157.8 |
| 147.5° | 2.7 | 36.1 | 81.6 | 128.4 | 144.4 |
| 150° | 2.7 | 32.1 | 72.2 | 117.7 | 131.1 |
| 152.5° | 4.0 | 29.4 | 64.2 | 104.3 | 117.7 |
| 155° | 4.0 | 26.7 | 56.2 | 89.6 | 104.3 |
| 157.5° | 4.0 | 24.1 | 48.1 | 74.9 | 90.9 |
| 160° | 4.0 | 21.4 | 41.5 | 61.5 | 77.6 |
| 162.5° | 4.0 | 20.1 | 36.1 | 50.8 | 65.5 |
| 165° | 4.0 | 17.4 | 30.8 | 41.5 | 53.5 |
| 167.5° | 4.0 | 13.4 | 25.4 | 32.1 | 44.1 |
| 170° | 4.0 | 10.7 | 20.1 | 22.7 | 33.4 |
| 172.5° | 4.0 | 8.0 | 14.7 | 16.0 | 17.4 |
| 175° | 4.0 | 6.7 | 9.4 | 9.4 | 5.3 |
| 177.5° | 4.0 | 5.3 | 5.3 | 5.3 | 2.7 |
| 180° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |

(END OF REPORT)