

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: P566560

Luminaire Tested: **4SNX-51SL-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-51SL-UNV-L840-CD
Description: 4FT 5100 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

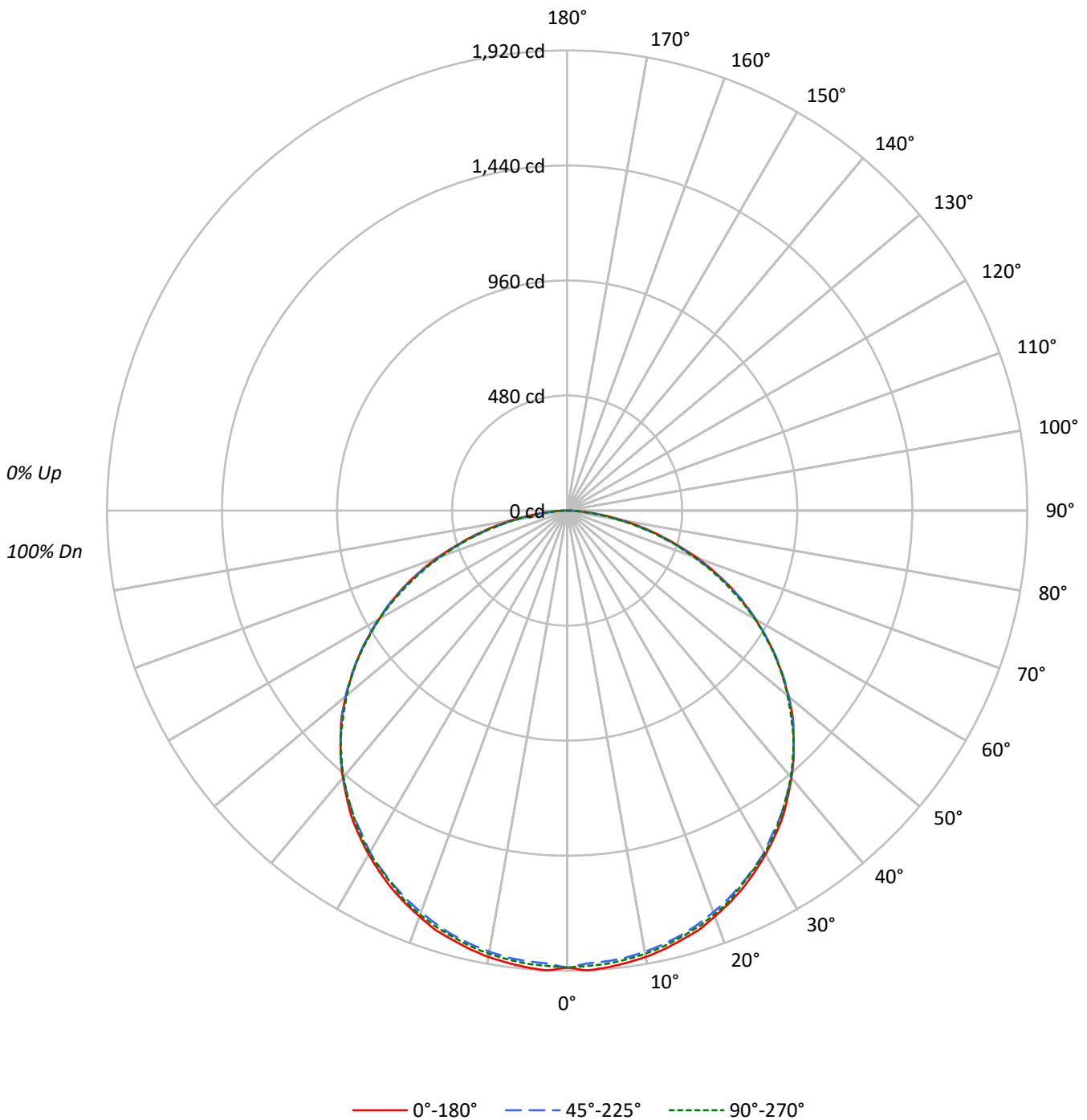
Lumens per Lamp: N/A
Luminaire Lumens: 5701.0 lumens
Efficiency: N/A
Efficacy: 162.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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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Luminous Intensity Polar Plot





TEST NUMBER: P566560

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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 99 | 95 | 106 | 101 | 98 | 94 | 97 | 94 | 91 | | 93 | 91 | 88 | | 90 | 88 | 86 | 83 |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | | 81 | 77 | 73 | | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | | 72 | 66 | 61 | | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | | 64 | 57 | 52 | | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 46 | | 57 | 50 | 45 | | 55 | 49 | 45 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | | 51 | 45 | 39 | | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | | 47 | 40 | 35 | | 45 | 39 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 31 | 44 | 37 | 31 | | 43 | 36 | 31 | | 42 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | | 39 | 33 | 28 | | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | | 36 | 30 | 25 | | 36 | 30 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 20524 | 20524 | 20524 |
| 5° | 20677 | 20398 | 20509 |
| 10° | 20672 | 20428 | 20521 |
| 15° | 20655 | 20445 | 20521 |
| 20° | 20643 | 20426 | 20544 |
| 25° | 20629 | 20425 | 20466 |
| 30° | 20588 | 20460 | 20502 |
| 35° | 20571 | 20413 | 20436 |
| 40° | 20454 | 20431 | 20407 |
| 45° | 20333 | 20359 | 20333 |
| 50° | 20185 | 20242 | 20100 |
| 55° | 19919 | 19982 | 19887 |
| 60° | 19528 | 19601 | 19489 |
| 65° | 19128 | 18998 | 18735 |
| 70° | 18184 | 17807 | 17593 |
| 75° | 16615 | 16045 | 16116 |
| 80° | 14350 | 13284 | 13606 |
| 85° | 10794 | 10374 | 9312 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 180.9 | 3.2 |
| 10°-20° | 521.2 | 9.1 |
| 20°-30° | 797.5 | 14.0 |
| 30°-40° | 975.1 | 17.1 |
| 40°-50° | 1031.4 | 18.1 |
| 50°-60° | 950.3 | 16.7 |
| 60°-70° | 732.3 | 12.8 |
| 70°-80° | 410.3 | 7.2 |
| 80°-90° | 102.0 | 1.8 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1499.5 | 26.3 |
| 0°-40° | 2474.6 | 43.4 |
| 0°-60° | 4456.4 | 78.2 |
| 0°-90° | 5701.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5701.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1907 | 1907 | 1907 | 1907 | 1907 | |
| 5° | 1914 | 1907 | 1888 | 1907 | 1898 | 182 |
| 15° | 1854 | 1850 | 1835 | 1850 | 1842 | 524 |
| 25° | 1737 | 1734 | 1720 | 1734 | 1723 | 800 |
| 35° | 1566 | 1562 | 1554 | 1559 | 1555 | 978 |
| 45° | 1336 | 1341 | 1337 | 1336 | 1336 | 1032 |
| 55° | 1061 | 1070 | 1065 | 1065 | 1060 | 948 |
| 65° | 751 | 751 | 746 | 727 | 736 | 739 |
| 75° | 400 | 394 | 386 | 372 | 388 | 424 |
| 85° | 87 | 82 | 84 | 84 | 75 | 108 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P566560

CATALOG NUMBER: 4SNX-51SL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1906.7 | 1906.7 | 1906.7 | 1906.7 | 1906.7 |
| 2.5° | 1920.4 | 1911.8 | 1891.3 | 1910.1 | 1901.6 |
| 5° | 1913.6 | 1906.7 | 1887.8 | 1906.7 | 1898.1 |
| 7.5° | 1903.3 | 1898.1 | 1881.0 | 1898.1 | 1889.5 |
| 10° | 1891.3 | 1886.1 | 1869.0 | 1886.1 | 1877.5 |
| 12.5° | 1874.1 | 1870.7 | 1853.5 | 1870.7 | 1862.1 |
| 15° | 1853.5 | 1850.1 | 1834.7 | 1850.1 | 1841.5 |
| 17.5° | 1833.0 | 1826.1 | 1810.7 | 1827.8 | 1821.0 |
| 20° | 1802.1 | 1798.7 | 1783.2 | 1798.7 | 1793.5 |
| 22.5° | 1771.2 | 1767.8 | 1754.1 | 1767.8 | 1764.4 |
| 25° | 1736.9 | 1733.5 | 1719.8 | 1733.5 | 1723.2 |
| 27.5° | 1697.5 | 1699.2 | 1683.8 | 1692.4 | 1687.2 |
| 30° | 1656.4 | 1656.4 | 1646.1 | 1649.5 | 1649.5 |
| 32.5° | 1611.8 | 1611.8 | 1596.3 | 1606.6 | 1604.9 |
| 35° | 1565.5 | 1562.0 | 1553.5 | 1558.6 | 1555.2 |
| 37.5° | 1510.6 | 1508.9 | 1503.8 | 1507.2 | 1503.8 |
| 40° | 1455.7 | 1457.5 | 1454.0 | 1452.3 | 1452.3 |
| 42.5° | 1399.2 | 1402.6 | 1397.4 | 1395.7 | 1394.0 |
| 45° | 1335.7 | 1340.9 | 1337.4 | 1335.7 | 1335.7 |
| 47.5° | 1277.4 | 1279.1 | 1274.0 | 1272.3 | 1267.1 |
| 50° | 1205.4 | 1212.3 | 1208.8 | 1205.4 | 1200.3 |
| 52.5° | 1133.4 | 1143.7 | 1136.8 | 1133.4 | 1133.4 |
| 55° | 1061.4 | 1069.9 | 1064.8 | 1064.8 | 1059.7 |
| 57.5° | 985.9 | 994.5 | 987.6 | 987.6 | 980.8 |
| 60° | 907.1 | 915.6 | 910.5 | 905.3 | 905.3 |
| 62.5° | 828.2 | 835.0 | 833.3 | 824.7 | 819.6 |
| 65° | 751.0 | 751.0 | 745.9 | 727.0 | 735.6 |
| 67.5° | 663.6 | 661.9 | 655.0 | 636.1 | 648.1 |
| 70° | 577.8 | 577.8 | 565.8 | 543.5 | 559.0 |
| 72.5° | 485.2 | 490.4 | 475.0 | 459.5 | 475.0 |
| 75° | 399.5 | 394.4 | 385.8 | 372.1 | 387.5 |
| 77.5° | 317.2 | 308.6 | 298.3 | 291.5 | 300.1 |
| 80° | 231.5 | 226.3 | 214.3 | 214.3 | 219.5 |
| 82.5° | 157.7 | 152.6 | 144.0 | 145.7 | 138.9 |
| 85° | 87.4 | 82.3 | 84.0 | 84.0 | 75.4 |
| 87.5° | 36.0 | 36.0 | 36.0 | 32.6 | 29.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)