

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: P565801

Luminaire Tested: **2SNX-47HL-LC-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNX-47HL-LC-UNV-L950-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

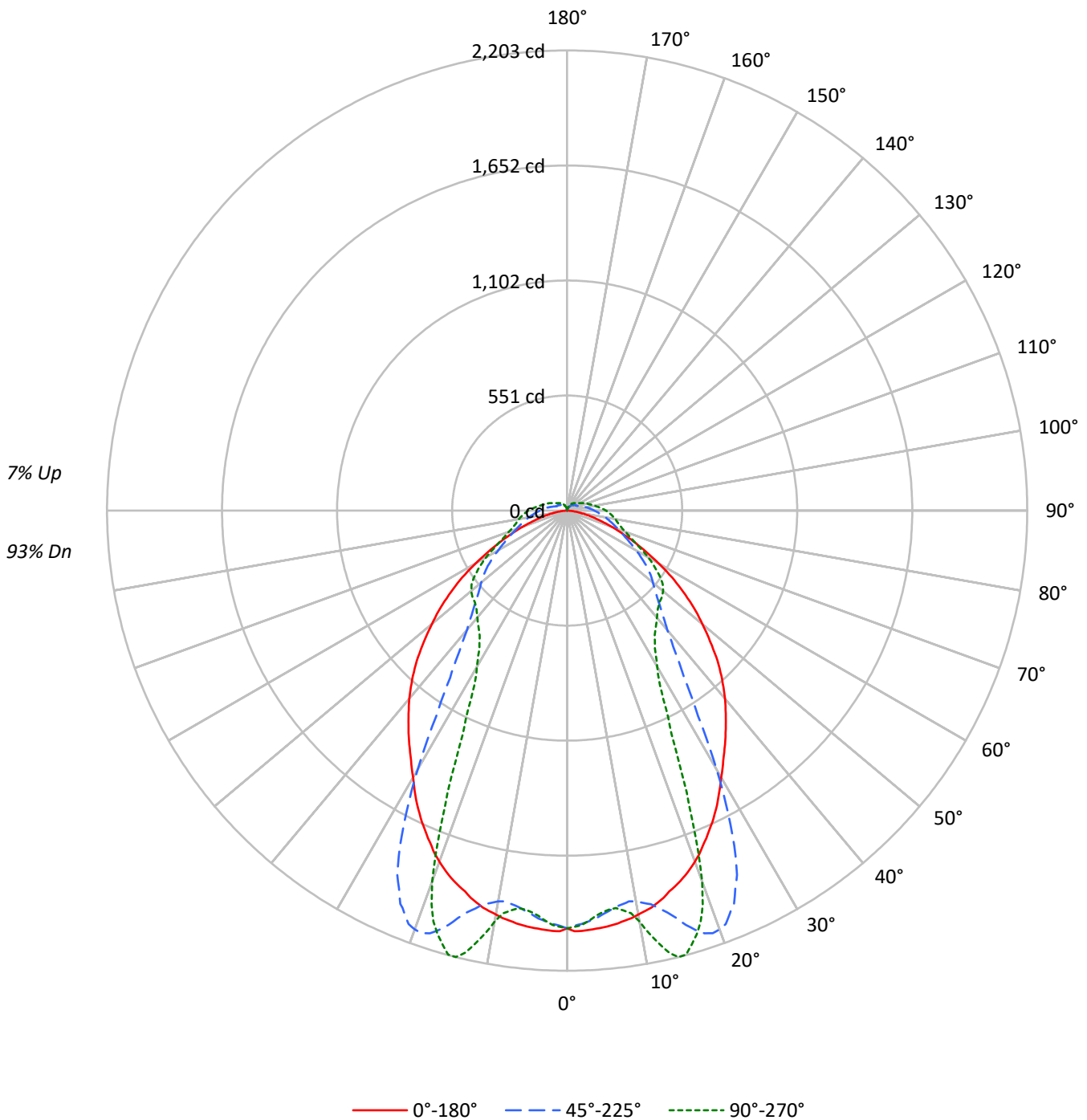
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4446.0 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 33.7
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: P565801
CATALOG NUMBER: 2SNX-47HL-LC-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P565801

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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 | 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 | 89 | 89 | 87 | 85 | 85 | 83 | 81 | 78 |
| 2 | 99 | 91 | 84 | 79 | 95 | 88 | 83 | 78 | 84 | 79 | 75 | 80 | 76 | 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 | 68 | 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 | 58 | 51 | 45 | 56 | 49 | 44 | 54 | 48 | 43 | 52 | 46 | 42 | 40 |
| 7 | 67 | 55 | 46 | 41 | 65 | 54 | 46 | 40 | 51 | 45 | 40 | 49 | 43 | 39 | 48 | 42 | 38 | 36 |
| 8 | 63 | 50 | 42 | 37 | 61 | 49 | 42 | 36 | 47 | 41 | 36 | 46 | 40 | 35 | 44 | 39 | 35 | 33 |
| 9 | 59 | 46 | 39 | 34 | 57 | 46 | 38 | 33 | 44 | 37 | 33 | 42 | 36 | 32 | 41 | 36 | 32 | 30 |
| 10 | 56 | 43 | 36 | 31 | 54 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 38 | 33 | 29 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 43066 | 43066 | 43066 |
| 5° | 42961 | 40093 | 39421 |
| 10° | 42292 | 37982 | 39090 |
| 15° | 41155 | 39423 | 41614 |
| 20° | 39756 | 40969 | 34829 |
| 25° | 37608 | 36650 | 21414 |
| 30° | 34985 | 27220 | 15499 |
| 35° | 32820 | 18733 | 13074 |
| 40° | 30862 | 14495 | 12049 |
| 45° | 28614 | 12303 | 11395 |
| 50° | 25747 | 11006 | 11187 |
| 55° | 22744 | 9916 | 10350 |
| 60° | 18978 | 8546 | 8952 |
| 65° | 15108 | 7410 | 7472 |
| 70° | 11508 | 6625 | 6580 |
| 75° | 8527 | 6123 | 6136 |
| 80° | 5539 | 5754 | 6073 |
| 85° | 2581 | 5435 | 6029 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 186.1 | 4.2 |
| 10°-20° | 568.8 | 12.8 |
| 20°-30° | 765.9 | 17.2 |
| 30°-40° | 724.8 | 16.3 |
| 40°-50° | 639.8 | 14.4 |
| 50°-60° | 519.6 | 11.7 |
| 60°-70° | 353.4 | 7.9 |
| 70°-80° | 227.4 | 5.1 |
| 80°-90° | 151.2 | 3.4 |
| 90°-100° | 103.9 | 2.3 |
| 100°-110° | 69.8 | 1.6 |
| 110°-120° | 49.2 | 1.1 |
| 120°-130° | 35.1 | 0.8 |
| 130°-140° | 24.8 | 0.6 |
| 140°-150° | 15.4 | 0.3 |
| 150°-160° | 7.5 | 0.2 |
| 160°-170° | 2.6 | 0.1 |
| 170°-180° | 0.5 | 0.0 |
| 0°-30° | 1520.9 | 34.2 |
| 0°-40° | 2245.7 | 50.5 |
| 0°-60° | 3405.1 | 76.6 |
| 0°-90° | 4137.2 | 93.1 |
| 90°-120° | 222.9 | 5.0 |
| 90°-150° | 298.3 | 6.7 |
| 90°-180° | 309.0 | 7.0 |
| 0°-180° | 4446.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2000 | 2000 | 2000 | 2000 | 2000 | |
| 5° | 2002 | 1984 | 1941 | 1940 | 1931 | 190 |
| 15° | 1888 | 1876 | 2020 | 2199 | 2201 | 532 |
| 25° | 1645 | 1950 | 1924 | 1398 | 1182 | 755 |
| 35° | 1322 | 1854 | 978 | 753 | 730 | 827 |
| 45° | 1018 | 1248 | 618 | 611 | 624 | 782 |
| 55° | 678 | 738 | 464 | 519 | 538 | 606 |
| 65° | 350 | 398 | 311 | 346 | 356 | 351 |
| 75° | 134 | 188 | 219 | 246 | 257 | 146 |
| 85° | 20 | 80 | 155 | 197 | 210 | 27 |
| 90° | 1 | 56 | 130 | 174 | 186 | 1 |
| 95° | 1 | 43 | 109 | 148 | 158 | 1 |
| 105° | 1 | 30 | 72 | 101 | 113 | 1 |
| 115° | 1 | 26 | 53 | 75 | 85 | 2 |
| 125° | 2 | 22 | 46 | 57 | 61 | 2 |
| 135° | 3 | 17 | 37 | 48 | 50 | 2 |
| 145° | 3 | 12 | 26 | 37 | 40 | 2 |
| 155° | 3 | 8 | 16 | 24 | 28 | 2 |
| 165° | 3 | 5 | 9 | 12 | 15 | 1 |
| 175° | 4 | 4 | 4 | 4 | 3 | 0 |
| 180° | 3 | 3 | 3 | 3 | 3 | |



TEST NUMBER: P565801

CATALOG NUMBER: 2SNX-47HL-LC-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2000.5 | 2000.5 | 2000.5 | 2000.5 | 2000.5 |
| 1° | 2014.1 | 2007.9 | 1987.6 | 1998.4 | 1993.0 |
| 2° | 2013.4 | 2003.2 | 1980.1 | 1992.3 | 1985.5 |
| 3° | 2010.0 | 1999.1 | 1969.3 | 1976.7 | 1966.5 |
| 4° | 2006.6 | 1993.7 | 1957.7 | 1957.7 | 1946.2 |
| 5° | 2002.5 | 1984.2 | 1941.4 | 1940.1 | 1930.6 |
| 6° | 1997.8 | 1976.7 | 1927.2 | 1925.8 | 1920.4 |
| 7° | 1991.0 | 1963.8 | 1911.6 | 1921.1 | 1917.0 |
| 8° | 1982.8 | 1951.6 | 1903.4 | 1927.2 | 1933.3 |
| 9° | 1975.4 | 1936.7 | 1893.9 | 1946.2 | 1950.9 |
| 10° | 1963.1 | 1923.1 | 1900.0 | 1984.2 | 1998.4 |
| 11° | 1953.0 | 1911.6 | 1913.6 | 2021.5 | 2064.3 |
| 12° | 1942.8 | 1899.3 | 1926.5 | 2068.4 | 2120.6 |
| 13° | 1925.8 | 1889.8 | 1955.0 | 2119.3 | 2172.9 |
| 14° | 1910.9 | 1882.4 | 1982.8 | 2170.9 | 2202.8 |
| 15° | 1887.8 | 1875.6 | 2020.2 | 2198.7 | 2200.7 |
| 16° | 1872.2 | 1870.8 | 2063.6 | 2200.7 | 2162.7 |
| 17° | 1854.5 | 1868.8 | 2098.9 | 2165.4 | 2120.6 |
| 18° | 1834.8 | 1872.9 | 2128.1 | 2121.3 | 2069.7 |
| 19° | 1812.4 | 1876.9 | 2140.3 | 2060.2 | 1993.7 |
| 20° | 1788.0 | 1883.0 | 2133.5 | 1996.4 | 1889.2 |
| 21° | 1763.6 | 1891.2 | 2120.6 | 1929.2 | 1752.0 |
| 22.5° | 1718.1 | 1910.9 | 2059.5 | 1740.5 | 1525.3 |
| 23° | 1705.2 | 1914.9 | 2045.3 | 1681.4 | 1466.3 |
| 24° | 1673.3 | 1931.9 | 1980.1 | 1543.6 | 1310.1 |
| 25° | 1644.8 | 1950.2 | 1924.5 | 1397.7 | 1181.8 |
| 26° | 1612.9 | 1963.8 | 1840.3 | 1263.3 | 1103.1 |
| 27° | 1581.6 | 1972.0 | 1744.6 | 1158.7 | 1014.8 |
| 28° | 1545.7 | 1980.8 | 1640.7 | 1068.5 | 948.3 |
| 29° | 1511.7 | 1982.2 | 1538.2 | 996.5 | 896.0 |
| 30° | 1475.1 | 1975.4 | 1430.3 | 938.8 | 863.5 |
| 32.5° | 1395.0 | 1938.0 | 1166.2 | 828.8 | 782.0 |
| 35° | 1321.7 | 1854.5 | 977.5 | 752.8 | 729.7 |
| 37.5° | 1247.7 | 1722.8 | 845.1 | 705.3 | 697.8 |
| 40° | 1175.0 | 1566.7 | 745.3 | 667.3 | 668.6 |
| 42.5° | 1098.3 | 1405.8 | 676.8 | 636.1 | 642.2 |
| 45° | 1018.2 | 1247.7 | 618.4 | 610.9 | 623.8 |
| 47.5° | 929.3 | 1103.1 | 572.2 | 594.6 | 614.3 |
| 50° | 845.1 | 959.9 | 536.3 | 579.0 | 599.4 |
| 52.5° | 765.0 | 842.4 | 503.7 | 552.6 | 576.3 |
| 55° | 678.1 | 737.9 | 464.3 | 518.6 | 538.3 |
| 57.5° | 595.3 | 643.5 | 422.9 | 476.5 | 494.2 |
| 60° | 504.4 | 550.5 | 380.8 | 431.1 | 448.0 |
| 62.5° | 422.2 | 471.1 | 344.8 | 385.6 | 399.1 |
| 65° | 349.6 | 397.8 | 310.9 | 345.5 | 356.4 |



TEST NUMBER: P565801

CATALOG NUMBER: 2SNX-47HL-LC-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 67.5° | 285.1 | 336.7 | 283.1 | 312.3 | 322.4 |
| 70° | 224.7 | 279.0 | 258.6 | 285.1 | 296.0 |
| 72.5° | 175.8 | 230.8 | 238.3 | 262.7 | 273.6 |
| 75° | 134.4 | 188.0 | 219.3 | 245.7 | 257.3 |
| 77.5° | 99.8 | 153.4 | 201.6 | 232.2 | 244.4 |
| 80° | 65.8 | 122.2 | 186.0 | 219.9 | 234.2 |
| 82.5° | 41.4 | 98.4 | 170.4 | 207.7 | 222.7 |
| 85° | 20.4 | 80.1 | 155.4 | 196.9 | 210.4 |
| 87.5° | 6.8 | 66.5 | 141.9 | 186.0 | 197.5 |
| 90° | 0.7 | 55.7 | 129.7 | 174.5 | 186.0 |
| 92.5° | 0.7 | 48.2 | 119.5 | 160.9 | 172.4 |
| 95° | 0.7 | 42.8 | 109.3 | 148.0 | 158.2 |
| 97.5° | 0.7 | 38.7 | 99.8 | 134.4 | 145.3 |
| 100° | 0.7 | 34.6 | 89.6 | 121.5 | 133.0 |
| 102.5° | 1.4 | 31.9 | 80.8 | 110.6 | 122.9 |
| 105° | 1.4 | 29.9 | 72.0 | 101.1 | 113.4 |
| 107.5° | 1.4 | 28.5 | 64.5 | 93.7 | 105.2 |
| 110° | 1.4 | 27.2 | 59.1 | 86.9 | 99.1 |
| 112.5° | 1.4 | 26.5 | 55.7 | 80.8 | 92.3 |
| 115° | 1.4 | 25.8 | 52.9 | 75.3 | 84.9 |
| 117.5° | 2.0 | 25.1 | 50.9 | 69.9 | 77.4 |
| 120° | 2.0 | 23.8 | 49.6 | 65.2 | 71.3 |
| 122.5° | 2.0 | 22.4 | 47.5 | 61.1 | 65.8 |
| 125° | 2.0 | 21.7 | 45.5 | 57.0 | 61.1 |
| 127.5° | 2.0 | 20.4 | 43.4 | 53.6 | 57.7 |
| 130° | 2.7 | 19.0 | 41.4 | 50.9 | 54.3 |
| 132.5° | 2.7 | 17.6 | 39.4 | 49.6 | 52.3 |
| 135° | 2.7 | 17.0 | 37.3 | 47.5 | 50.2 |
| 137.5° | 2.7 | 15.6 | 35.3 | 45.5 | 48.2 |
| 140° | 2.7 | 14.3 | 32.6 | 42.8 | 45.5 |
| 142.5° | 2.7 | 13.6 | 29.9 | 40.1 | 42.8 |
| 145° | 2.7 | 12.2 | 26.5 | 36.7 | 40.1 |
| 147.5° | 3.4 | 11.5 | 23.8 | 33.9 | 36.7 |
| 150° | 3.4 | 10.2 | 21.0 | 31.2 | 33.9 |
| 152.5° | 3.4 | 8.8 | 18.3 | 27.8 | 30.5 |
| 155° | 3.4 | 7.5 | 16.3 | 24.4 | 27.8 |
| 157.5° | 3.4 | 6.8 | 14.3 | 20.4 | 24.4 |
| 160° | 3.4 | 6.1 | 12.2 | 17.6 | 21.0 |
| 162.5° | 3.4 | 5.4 | 10.9 | 14.9 | 18.3 |
| 165° | 3.4 | 4.8 | 8.8 | 12.2 | 14.9 |
| 167.5° | 4.1 | 4.8 | 7.5 | 9.5 | 12.2 |
| 170° | 4.1 | 4.8 | 6.1 | 7.5 | 9.5 |
| 172.5° | 4.1 | 4.1 | 4.8 | 5.4 | 6.1 |
| 175° | 4.1 | 4.1 | 4.1 | 4.1 | 3.4 |
| 177.5° | 4.1 | 4.1 | 4.1 | 3.4 | 3.4 |



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CATALOG NUMBER: 2SNX-47HL-LC-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

| | | | | | |
|------|-----|-------|-----|-------|-----|
| | 0° | 22.5° | 45° | 67.5° | 90° |
| 180° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |

(END OF REPORT)