

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: P566025

Luminaire Tested: **4SNX-104HL-SLW-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566025
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-104HL-SLW-UNV-L850-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

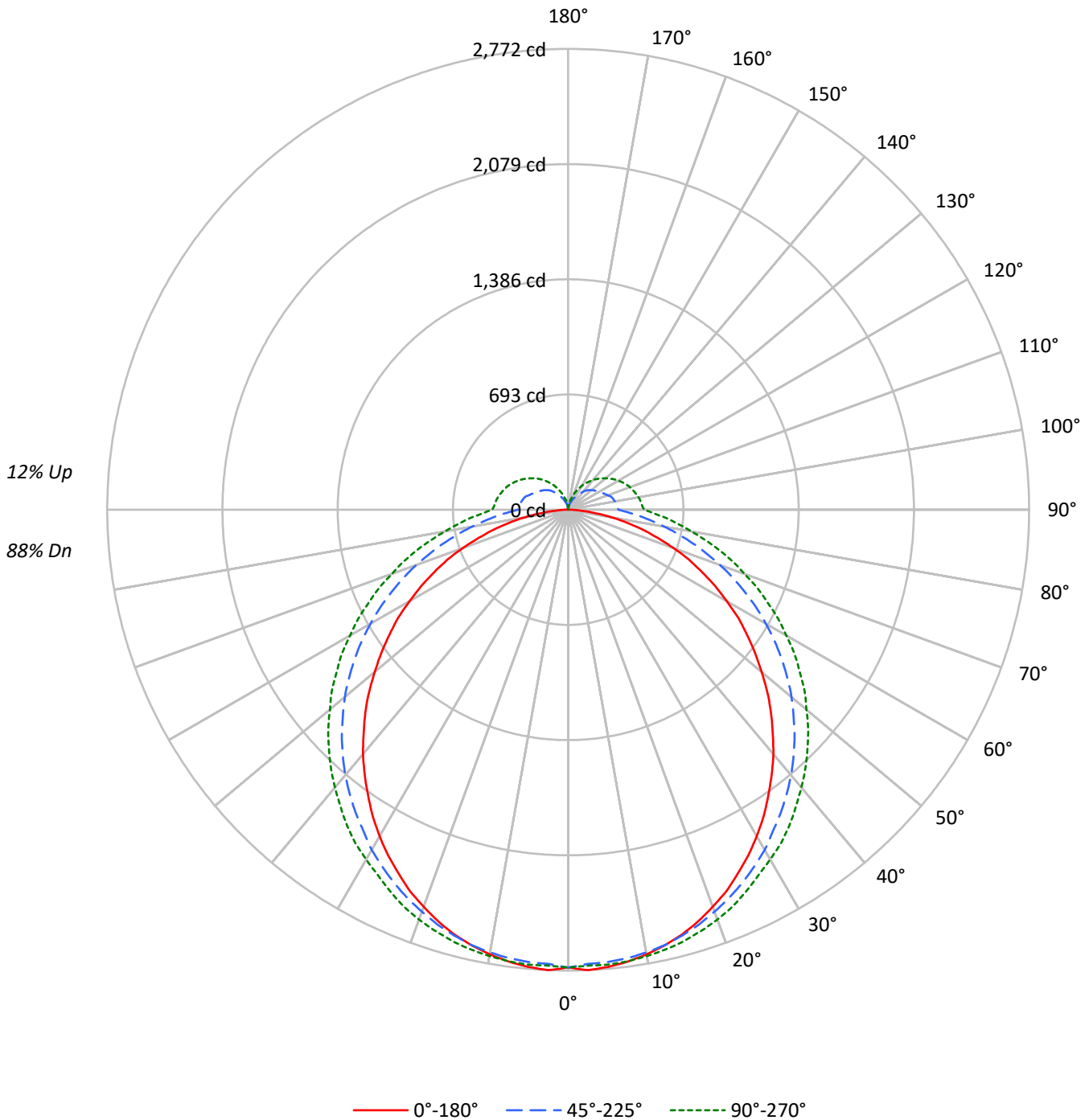
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9913.0 lumens
Efficiency: N/A
Efficacy: 131.3 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: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 75.5
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

TEST NUMBER: P566025
CATALOG NUMBER: 4SNX-104HL-SLW-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566025

CATALOG NUMBER: 4SNX-104HL-SLW-UNV-L850-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 | 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° | 29637 | 29637 | 29637 |
| 5° | 29770 | 28883 | 28840 |
| 10° | 29579 | 28312 | 28150 |
| 15° | 29310 | 27697 | 27499 |
| 20° | 28892 | 27025 | 26821 |
| 25° | 28394 | 26350 | 26049 |
| 30° | 27854 | 25673 | 25336 |
| 35° | 27176 | 24915 | 24724 |
| 40° | 26515 | 24222 | 23973 |
| 45° | 25721 | 23453 | 23261 |
| 50° | 24800 | 22636 | 22445 |
| 55° | 23916 | 21681 | 21633 |
| 60° | 22894 | 20645 | 20696 |
| 65° | 21649 | 19464 | 19699 |
| 70° | 20065 | 18133 | 18552 |
| 75° | 17821 | 16600 | 17499 |
| 80° | 14686 | 15080 | 16169 |
| 85° | 10172 | 13720 | 15303 |



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CATALOG NUMBER: 4SNX-104HL-SLW-UNV-L850-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 261.4 | 2.6 |
| 10°-20° | 751.9 | 7.6 |
| 20°-30° | 1143.9 | 11.5 |
| 30°-40° | 1390.9 | 14.0 |
| 40°-50° | 1471.5 | 14.8 |
| 50°-60° | 1379.3 | 13.9 |
| 60°-70° | 1134.7 | 11.4 |
| 70°-80° | 785.1 | 7.9 |
| 80°-90° | 436.6 | 4.4 |
| 90°-100° | 287.6 | 2.9 |
| 100°-110° | 257.9 | 2.6 |
| 110°-120° | 213.5 | 2.2 |
| 120°-130° | 165.0 | 1.7 |
| 130°-140° | 116.8 | 1.2 |
| 140°-150° | 70.5 | 0.7 |
| 150°-160° | 33.8 | 0.3 |
| 160°-170° | 11.1 | 0.1 |
| 170°-180° | 1.4 | 0.0 |
| 0°-30° | 2157.2 | 21.8 |
| 0°-40° | 3548.1 | 35.8 |
| 0°-60° | 6398.9 | 64.6 |
| 0°-90° | 8755.3 | 88.3 |
| 90°-120° | 759.0 | 7.7 |
| 90°-150° | 1111.4 | 11.2 |
| 90°-180° | 1158.0 | 11.7 |
| 0°-180° | 9913.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2753 | 2753 | 2753 | 2753 | 2753 | |
| 5° | 2760 | 2755 | 2731 | 2753 | 2747 | 262 |
| 15° | 2645 | 2653 | 2652 | 2687 | 2687 | 745 |
| 25° | 2414 | 2448 | 2477 | 2531 | 2533 | 1113 |
| 35° | 2098 | 2154 | 2227 | 2298 | 2319 | 1313 |
| 45° | 1725 | 1815 | 1925 | 2012 | 2035 | 1329 |
| 55° | 1312 | 1429 | 1567 | 1665 | 1699 | 1175 |
| 65° | 888 | 1015 | 1173 | 1288 | 1324 | 880 |
| 75° | 462 | 596 | 771 | 893 | 942 | 490 |
| 85° | 102 | 253 | 428 | 547 | 594 | 117 |
| 90° | 2 | 143 | 302 | 416 | 457 | 7 |
| 95° | 2 | 136 | 294 | 402 | 441 | 1 |
| 105° | 2 | 117 | 275 | 379 | 412 | 2 |
| 115° | 3 | 102 | 233 | 336 | 374 | 3 |
| 125° | 3 | 87 | 199 | 287 | 322 | 3 |
| 135° | 3 | 68 | 166 | 236 | 265 | 3 |
| 145° | 3 | 49 | 115 | 178 | 200 | 2 |
| 155° | 5 | 34 | 71 | 114 | 132 | 2 |
| 165° | 5 | 22 | 39 | 53 | 68 | 1 |
| 175° | 5 | 8 | 12 | 12 | 7 | 0 |
| 180° | 3 | 3 | 3 | 3 | 3 | |



TEST NUMBER: P566025

CATALOG NUMBER: 4SNX-104HL-SLW-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2753.4 | 2753.4 | 2753.4 | 2753.4 | 2753.4 |
| 2.5° | 2772.1 | 2763.6 | 2734.8 | 2753.4 | 2745.0 |
| 5° | 2760.2 | 2755.1 | 2731.4 | 2753.4 | 2746.7 |
| 7.5° | 2741.6 | 2739.9 | 2721.2 | 2746.7 | 2739.9 |
| 10° | 2716.1 | 2719.5 | 2704.2 | 2731.4 | 2726.3 |
| 12.5° | 2683.8 | 2688.9 | 2682.2 | 2712.7 | 2709.3 |
| 15° | 2644.8 | 2653.3 | 2651.6 | 2687.2 | 2687.2 |
| 17.5° | 2597.3 | 2609.2 | 2615.9 | 2656.7 | 2656.7 |
| 20° | 2541.3 | 2559.9 | 2573.5 | 2617.6 | 2624.4 |
| 22.5° | 2485.2 | 2507.3 | 2527.7 | 2573.5 | 2583.7 |
| 25° | 2413.9 | 2447.9 | 2476.7 | 2531.1 | 2532.8 |
| 27.5° | 2344.3 | 2381.7 | 2420.7 | 2473.4 | 2478.4 |
| 30° | 2267.9 | 2315.5 | 2363.0 | 2413.9 | 2429.2 |
| 32.5° | 2186.5 | 2239.1 | 2291.7 | 2359.6 | 2380.0 |
| 35° | 2098.2 | 2154.2 | 2227.2 | 2298.5 | 2318.9 |
| 37.5° | 2009.9 | 2072.7 | 2157.6 | 2230.6 | 2249.3 |
| 40° | 1919.9 | 1989.5 | 2084.6 | 2159.3 | 2181.4 |
| 42.5° | 1819.8 | 1904.7 | 2006.5 | 2086.3 | 2111.8 |
| 45° | 1724.7 | 1814.7 | 1925.0 | 2011.6 | 2035.4 |
| 47.5° | 1624.6 | 1719.6 | 1838.5 | 1930.1 | 1957.3 |
| 50° | 1517.6 | 1626.3 | 1753.6 | 1845.3 | 1870.7 |
| 52.5° | 1417.5 | 1527.8 | 1661.9 | 1757.0 | 1792.6 |
| 55° | 1312.2 | 1429.3 | 1566.9 | 1665.3 | 1699.3 |
| 57.5° | 1213.8 | 1325.8 | 1473.5 | 1571.9 | 1614.4 |
| 60° | 1101.7 | 1225.6 | 1373.3 | 1480.3 | 1514.2 |
| 62.5° | 996.5 | 1122.1 | 1274.9 | 1385.2 | 1424.3 |
| 65° | 887.8 | 1015.1 | 1173.0 | 1288.5 | 1324.1 |
| 67.5° | 786.0 | 911.6 | 1072.9 | 1186.6 | 1232.4 |
| 70° | 673.9 | 806.3 | 971.0 | 1088.1 | 1127.2 |
| 72.5° | 563.6 | 701.1 | 869.2 | 994.8 | 1038.9 |
| 75° | 461.7 | 595.8 | 770.7 | 892.9 | 942.1 |
| 77.5° | 363.3 | 499.1 | 675.6 | 801.3 | 843.7 |
| 80° | 264.8 | 407.4 | 587.4 | 711.3 | 752.0 |
| 82.5° | 174.8 | 324.2 | 502.5 | 626.4 | 670.5 |
| 85° | 101.9 | 252.9 | 427.8 | 546.6 | 594.1 |
| 87.5° | 44.1 | 191.8 | 358.2 | 475.3 | 514.4 |
| 90° | 1.7 | 142.6 | 302.2 | 415.9 | 456.6 |
| 92.5° | 1.7 | 139.2 | 295.4 | 407.4 | 446.5 |
| 95° | 1.7 | 135.8 | 293.7 | 402.3 | 441.4 |
| 97.5° | 1.7 | 134.1 | 290.3 | 398.9 | 436.3 |
| 100° | 1.7 | 129.0 | 285.2 | 392.1 | 429.5 |
| 102.5° | 1.7 | 122.2 | 280.1 | 385.3 | 421.0 |
| 105° | 1.7 | 117.1 | 275.0 | 378.6 | 412.5 |
| 107.5° | 1.7 | 112.0 | 266.5 | 370.1 | 404.0 |
| 110° | 1.7 | 106.9 | 252.9 | 361.6 | 395.5 |



TEST NUMBER: P566025

CATALOG NUMBER: 4SNX-104HL-SLW-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 1.7 | 105.2 | 242.8 | 349.7 | 385.3 |
| 115° | 3.4 | 101.9 | 232.6 | 336.1 | 373.5 |
| 117.5° | 3.4 | 100.2 | 224.1 | 322.5 | 361.6 |
| 120° | 3.4 | 95.1 | 215.6 | 310.7 | 348.0 |
| 122.5° | 3.4 | 90.0 | 207.1 | 298.8 | 336.1 |
| 125° | 3.4 | 86.6 | 198.6 | 286.9 | 322.5 |
| 127.5° | 3.4 | 81.5 | 191.8 | 275.0 | 307.3 |
| 130° | 3.4 | 78.1 | 183.3 | 261.4 | 293.7 |
| 132.5° | 3.4 | 73.0 | 174.8 | 247.8 | 278.4 |
| 135° | 3.4 | 67.9 | 166.4 | 236.0 | 264.8 |
| 137.5° | 3.4 | 61.1 | 156.2 | 222.4 | 249.5 |
| 140° | 3.4 | 56.0 | 142.6 | 208.8 | 234.3 |
| 142.5° | 3.4 | 52.6 | 129.0 | 193.5 | 217.3 |
| 145° | 3.4 | 49.2 | 115.4 | 178.2 | 200.3 |
| 147.5° | 3.4 | 45.8 | 103.6 | 163.0 | 183.3 |
| 150° | 3.4 | 40.7 | 91.7 | 149.4 | 166.4 |
| 152.5° | 5.1 | 37.3 | 81.5 | 132.4 | 149.4 |
| 155° | 5.1 | 34.0 | 71.3 | 113.7 | 132.4 |
| 157.5° | 5.1 | 30.6 | 61.1 | 95.1 | 115.4 |
| 160° | 5.1 | 27.2 | 52.6 | 78.1 | 98.5 |
| 162.5° | 5.1 | 25.5 | 45.8 | 64.5 | 83.2 |
| 165° | 5.1 | 22.1 | 39.0 | 52.6 | 67.9 |
| 167.5° | 5.1 | 17.0 | 32.3 | 40.7 | 56.0 |
| 170° | 5.1 | 13.6 | 25.5 | 28.9 | 42.4 |
| 172.5° | 5.1 | 10.2 | 18.7 | 20.4 | 22.1 |
| 175° | 5.1 | 8.5 | 11.9 | 11.9 | 6.8 |
| 177.5° | 5.1 | 6.8 | 6.8 | 6.8 | 3.4 |
| 180° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |

(END OF REPORT)