

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: P566526

Luminaire Tested: **4SNX-51SL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-51SL-LC-UNV-L830-CD
Description: 4FT 5100 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

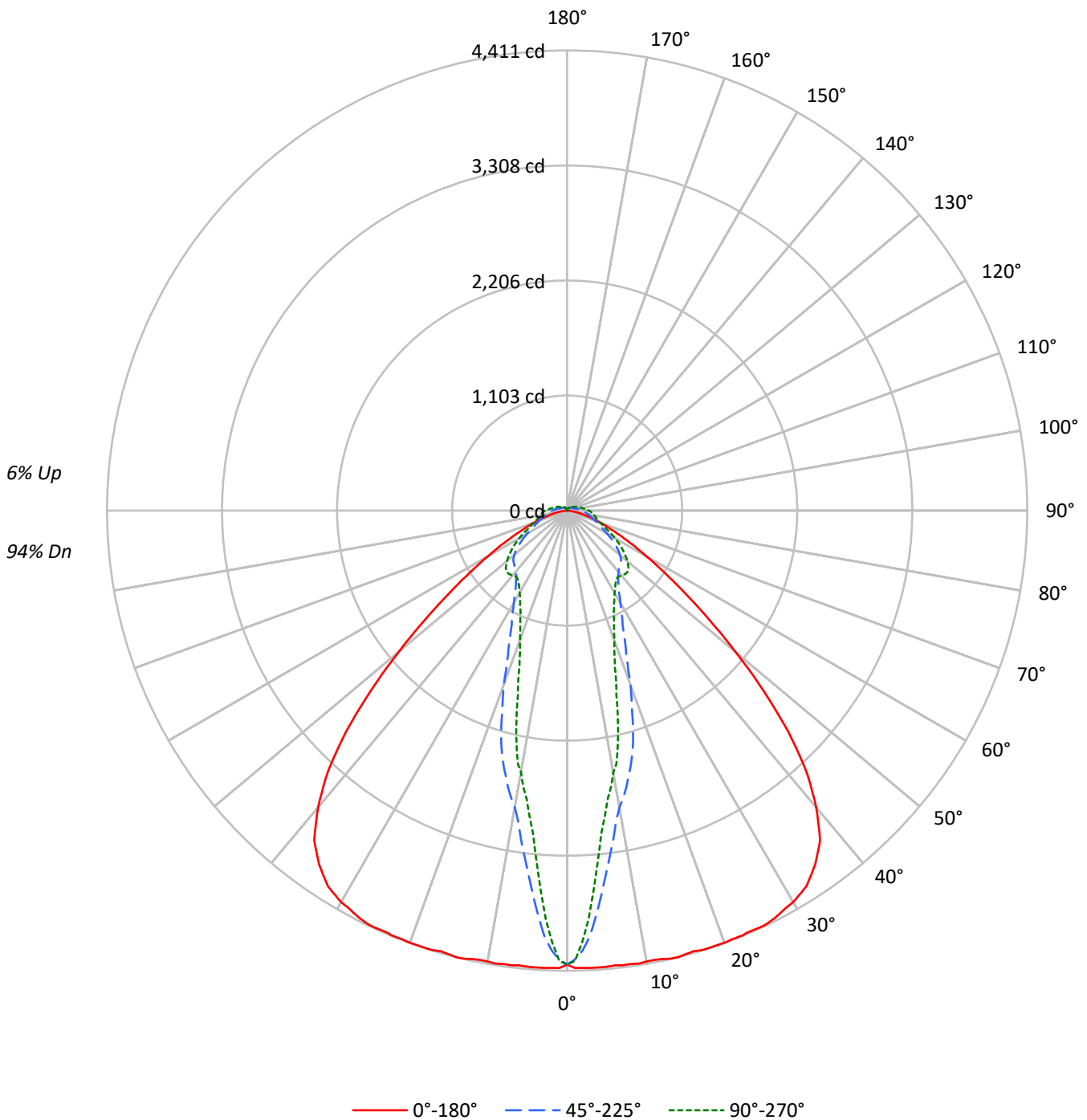
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5362.9 lumens
Efficiency: N/A
Efficacy: 153.2 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 35
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: P566526
CATALOG NUMBER: 4SNX-51SL-LC-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566526

CATALOG NUMBER: 4SNX-51SL-LC-UNV-L830-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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 | 94 | | | | |
| 1 | 108 | 103 | 99 | 96 | 105 | 101 | 97 | 94 | 95 | 92 | 90 | 90 | 88 | 86 | 86 | 84 | 82 | 80 | | | | |
| 2 | 99 | 92 | 86 | 80 | 96 | 89 | 84 | 79 | 85 | 80 | 76 | 81 | 77 | 74 | 77 | 74 | 71 | 69 | | | | |
| 3 | 92 | 82 | 75 | 69 | 89 | 80 | 73 | 68 | 76 | 71 | 66 | 73 | 68 | 64 | 70 | 66 | 62 | 60 | | | | |
| 4 | 85 | 74 | 66 | 60 | 82 | 72 | 65 | 59 | 69 | 63 | 58 | 66 | 61 | 56 | 63 | 59 | 55 | 53 | | | | |
| 5 | 79 | 67 | 59 | 53 | 76 | 66 | 58 | 52 | 63 | 56 | 51 | 60 | 55 | 50 | 58 | 53 | 49 | 47 | | | | |
| 6 | 73 | 61 | 53 | 47 | 71 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 45 | 53 | 48 | 44 | 42 | | | | |
| 7 | 69 | 56 | 48 | 43 | 67 | 55 | 48 | 42 | 53 | 46 | 42 | 51 | 45 | 41 | 50 | 44 | 40 | 38 | | | | |
| 8 | 64 | 52 | 44 | 39 | 63 | 51 | 44 | 39 | 49 | 43 | 38 | 48 | 42 | 37 | 46 | 41 | 37 | 35 | | | | |
| 9 | 61 | 48 | 41 | 36 | 59 | 47 | 40 | 35 | 46 | 39 | 35 | 44 | 39 | 34 | 43 | 38 | 34 | 32 | | | | |
| 10 | 57 | 45 | 38 | 33 | 56 | 44 | 37 | 33 | 43 | 37 | 32 | 42 | 36 | 32 | 40 | 35 | 31 | 30 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 46831 | 46831 | 46831 |
| 5° | 47253 | 38464 | 34430 |
| 10° | 47624 | 29037 | 24918 |
| 15° | 48493 | 23735 | 17254 |
| 20° | 49743 | 17175 | 12186 |
| 25° | 51295 | 12305 | 9586 |
| 30° | 52605 | 9831 | 8164 |
| 35° | 52917 | 8316 | 7313 |
| 40° | 50448 | 7559 | 7330 |
| 45° | 43779 | 7304 | 7530 |
| 50° | 33587 | 6946 | 7028 |
| 55° | 24340 | 6074 | 6235 |
| 60° | 17659 | 5069 | 5272 |
| 65° | 12852 | 4286 | 4322 |
| 70° | 9468 | 3785 | 3727 |
| 75° | 6727 | 3506 | 3473 |
| 80° | 4407 | 3283 | 3420 |
| 85° | 2066 | 3129 | 3426 |



TEST NUMBER: P566526

CATALOG NUMBER: 4SNX-51SL-LC-UNV-L830-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 342.2 | 6.4 |
| 10°-20° | 743.0 | 13.9 |
| 20°-30° | 850.5 | 15.9 |
| 30°-40° | 852.0 | 15.9 |
| 40°-50° | 806.5 | 15.0 |
| 50°-60° | 618.5 | 11.5 |
| 60°-70° | 398.7 | 7.4 |
| 70°-80° | 254.2 | 4.7 |
| 80°-90° | 168.8 | 3.1 |
| 90°-100° | 113.5 | 2.1 |
| 100°-110° | 74.8 | 1.4 |
| 110°-120° | 52.0 | 1.0 |
| 120°-130° | 36.3 | 0.7 |
| 130°-140° | 25.2 | 0.5 |
| 140°-150° | 15.4 | 0.3 |
| 150°-160° | 7.8 | 0.1 |
| 160°-170° | 3.0 | 0.1 |
| 170°-180° | 0.6 | 0.0 |
| 0°-30° | 1935.6 | 36.1 |
| 0°-40° | 2787.6 | 52.0 |
| 0°-60° | 4212.6 | 78.6 |
| 0°-90° | 5034.4 | 93.9 |
| 90°-120° | 240.3 | 4.5 |
| 90°-150° | 317.2 | 5.9 |
| 90°-180° | 329.0 | 6.1 |
| 0°-180° | 5362.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4351 | 4351 | 4351 | 4351 | 4351 | |
| 5° | 4389 | 4147 | 3716 | 3466 | 3372 | 419 |
| 15° | 4400 | 3169 | 2416 | 1984 | 1825 | 1248 |
| 25° | 4403 | 2243 | 1278 | 1110 | 1058 | 2030 |
| 35° | 4145 | 1248 | 855 | 827 | 816 | 2571 |
| 45° | 2996 | 789 | 720 | 797 | 824 | 2278 |
| 55° | 1374 | 563 | 555 | 624 | 649 | 1264 |
| 65° | 550 | 354 | 349 | 398 | 412 | 565 |
| 75° | 187 | 192 | 242 | 278 | 291 | 205 |
| 85° | 25 | 88 | 170 | 223 | 239 | 34 |
| 90° | 0 | 60 | 143 | 198 | 206 | 1 |
| 95° | 0 | 44 | 118 | 162 | 170 | 0 |
| 105° | 0 | 33 | 77 | 110 | 118 | 2 |
| 115° | 3 | 28 | 58 | 80 | 85 | 3 |
| 125° | 3 | 25 | 50 | 58 | 60 | 2 |
| 135° | 3 | 19 | 38 | 47 | 50 | 2 |
| 145° | 3 | 14 | 28 | 36 | 38 | 2 |
| 155° | 3 | 8 | 16 | 25 | 28 | 1 |
| 165° | 6 | 6 | 11 | 14 | 16 | 1 |
| 175° | 6 | 6 | 6 | 6 | 3 | 1 |
| 180° | 6 | 6 | 6 | 6 | 6 | |



TEST NUMBER: P566526

CATALOG NUMBER: 4SNX-51SL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4350.7 | 4350.7 | 4350.7 | 4350.7 | 4350.7 |
| 1° | 4386.5 | 4361.7 | 4304.0 | 4320.5 | 4317.7 |
| 2° | 4386.5 | 4334.2 | 4221.6 | 4188.6 | 4139.1 |
| 3° | 4389.2 | 4287.5 | 4095.1 | 3987.9 | 3919.2 |
| 4° | 4389.2 | 4218.8 | 3908.2 | 3729.6 | 3641.6 |
| 5° | 4389.2 | 4147.3 | 3715.8 | 3465.7 | 3372.3 |
| 6° | 4383.7 | 4062.1 | 3520.7 | 3256.9 | 3116.7 |
| 7° | 4392.0 | 3968.7 | 3344.8 | 3061.7 | 2951.8 |
| 8° | 4389.2 | 3858.8 | 3182.7 | 2913.3 | 2792.4 |
| 9° | 4397.4 | 3751.6 | 3006.8 | 2773.1 | 2682.4 |
| 10° | 4389.2 | 3652.6 | 2891.3 | 2641.2 | 2547.8 |
| 11° | 4389.2 | 3556.4 | 2808.9 | 2556.0 | 2476.3 |
| 12° | 4394.7 | 3446.5 | 2718.2 | 2435.1 | 2325.2 |
| 13° | 4408.4 | 3333.8 | 2613.7 | 2303.2 | 2174.0 |
| 14° | 4411.2 | 3248.6 | 2517.5 | 2135.5 | 2000.8 |
| 15° | 4400.2 | 3168.9 | 2415.8 | 1984.3 | 1824.9 |
| 16° | 4394.7 | 3086.5 | 2294.9 | 1841.4 | 1698.5 |
| 17° | 4405.7 | 2990.3 | 2157.5 | 1695.8 | 1563.8 |
| 18° | 4408.4 | 2902.3 | 2011.8 | 1585.8 | 1470.4 |
| 19° | 4408.4 | 2833.6 | 1893.7 | 1484.1 | 1385.2 |
| 20° | 4408.4 | 2767.6 | 1772.7 | 1407.2 | 1322.0 |
| 21° | 4402.9 | 2685.2 | 1635.3 | 1327.5 | 1256.0 |
| 22.5° | 4405.7 | 2531.3 | 1478.6 | 1234.0 | 1176.3 |
| 23° | 4397.4 | 2492.8 | 1440.2 | 1209.3 | 1148.8 |
| 24° | 4400.2 | 2382.9 | 1357.7 | 1159.8 | 1102.1 |
| 25° | 4402.9 | 2242.7 | 1278.0 | 1110.4 | 1058.1 |
| 26° | 4397.4 | 2130.0 | 1212.0 | 1063.6 | 1027.9 |
| 27° | 4383.7 | 2039.3 | 1165.3 | 1025.2 | 992.2 |
| 28° | 4364.5 | 1918.4 | 1115.9 | 992.2 | 961.9 |
| 29° | 4345.2 | 1781.0 | 1066.4 | 956.4 | 934.5 |
| 30° | 4334.2 | 1671.0 | 1019.7 | 929.0 | 909.7 |
| 32.5° | 4268.3 | 1453.9 | 923.5 | 874.0 | 857.5 |
| 35° | 4144.6 | 1247.8 | 854.8 | 827.3 | 816.3 |
| 37.5° | 3982.4 | 1088.4 | 802.5 | 797.0 | 799.8 |
| 40° | 3715.8 | 961.9 | 764.1 | 788.8 | 813.5 |
| 42.5° | 3397.0 | 863.0 | 736.6 | 797.0 | 824.5 |
| 45° | 2995.8 | 788.8 | 720.1 | 797.0 | 824.5 |
| 47.5° | 2550.5 | 728.3 | 700.8 | 769.6 | 797.0 |
| 50° | 2105.3 | 673.4 | 662.4 | 728.3 | 753.1 |
| 52.5° | 1712.3 | 621.1 | 612.9 | 676.1 | 700.8 |
| 55° | 1374.2 | 563.4 | 555.2 | 623.9 | 648.6 |
| 57.5° | 1102.1 | 508.5 | 500.2 | 563.4 | 588.2 |
| 60° | 879.5 | 453.5 | 439.7 | 503.0 | 527.7 |
| 62.5° | 700.8 | 401.3 | 393.0 | 448.0 | 470.0 |
| 65° | 549.7 | 354.5 | 349.0 | 398.5 | 412.3 |



TEST NUMBER: P566526

CATALOG NUMBER: 4SNX-51SL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 67.5° | 434.2 | 310.6 | 313.3 | 354.5 | 371.0 |
| 70° | 335.3 | 269.3 | 285.8 | 324.3 | 335.3 |
| 72.5° | 252.9 | 228.1 | 263.8 | 296.8 | 310.6 |
| 75° | 186.9 | 192.4 | 241.9 | 277.6 | 291.3 |
| 77.5° | 129.2 | 159.4 | 222.6 | 261.1 | 274.8 |
| 80° | 87.9 | 129.2 | 203.4 | 247.4 | 263.8 |
| 82.5° | 52.2 | 107.2 | 186.9 | 233.6 | 252.9 |
| 85° | 24.7 | 87.9 | 170.4 | 222.6 | 239.1 |
| 87.5° | 8.2 | 71.5 | 153.9 | 211.6 | 225.4 |
| 90° | 0.0 | 60.5 | 142.9 | 197.9 | 206.1 |
| 92.5° | 0.0 | 52.2 | 129.2 | 181.4 | 186.9 |
| 95° | 0.0 | 44.0 | 118.2 | 162.2 | 170.4 |
| 97.5° | 0.0 | 41.2 | 109.9 | 145.7 | 156.7 |
| 100° | 0.0 | 38.5 | 98.9 | 131.9 | 142.9 |
| 102.5° | 0.0 | 33.0 | 87.9 | 118.2 | 129.2 |
| 105° | 0.0 | 33.0 | 77.0 | 109.9 | 118.2 |
| 107.5° | 2.7 | 30.2 | 71.5 | 98.9 | 109.9 |
| 110° | 2.7 | 30.2 | 63.2 | 93.4 | 101.7 |
| 112.5° | 2.7 | 30.2 | 60.5 | 85.2 | 96.2 |
| 115° | 2.7 | 27.5 | 57.7 | 79.7 | 85.2 |
| 117.5° | 2.7 | 27.5 | 55.0 | 71.5 | 77.0 |
| 120° | 2.7 | 24.7 | 52.2 | 66.0 | 68.7 |
| 122.5° | 2.7 | 24.7 | 49.5 | 60.5 | 63.2 |
| 125° | 2.7 | 24.7 | 49.5 | 57.7 | 60.5 |
| 127.5° | 2.7 | 22.0 | 46.7 | 55.0 | 55.0 |
| 130° | 2.7 | 22.0 | 44.0 | 52.2 | 52.2 |
| 132.5° | 2.7 | 19.2 | 41.2 | 49.5 | 52.2 |
| 135° | 2.7 | 19.2 | 38.5 | 46.7 | 49.5 |
| 137.5° | 2.7 | 16.5 | 35.7 | 44.0 | 46.7 |
| 140° | 2.7 | 16.5 | 33.0 | 41.2 | 44.0 |
| 142.5° | 2.7 | 13.7 | 30.2 | 38.5 | 41.2 |
| 145° | 2.7 | 13.7 | 27.5 | 35.7 | 38.5 |
| 147.5° | 2.7 | 13.7 | 24.7 | 33.0 | 35.7 |
| 150° | 2.7 | 11.0 | 22.0 | 30.2 | 33.0 |
| 152.5° | 2.7 | 11.0 | 19.2 | 27.5 | 30.2 |
| 155° | 2.7 | 8.2 | 16.5 | 24.7 | 27.5 |
| 157.5° | 2.7 | 8.2 | 16.5 | 22.0 | 24.7 |
| 160° | 5.5 | 8.2 | 13.7 | 19.2 | 22.0 |
| 162.5° | 2.7 | 5.5 | 13.7 | 16.5 | 19.2 |
| 165° | 5.5 | 5.5 | 11.0 | 13.7 | 16.5 |
| 167.5° | 5.5 | 5.5 | 8.2 | 11.0 | 13.7 |
| 170° | 5.5 | 5.5 | 8.2 | 8.2 | 11.0 |
| 172.5° | 5.5 | 5.5 | 5.5 | 8.2 | 5.5 |
| 175° | 5.5 | 5.5 | 5.5 | 5.5 | 2.7 |
| 177.5° | 5.5 | 5.5 | 5.5 | 5.5 | 2.7 |



TEST NUMBER: P566526

CATALOG NUMBER: 4SNX-51SL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

| | | | | | |
|------|-----|-------|-----|-------|-----|
| | 0° | 22.5° | 45° | 67.5° | 90° |
| 180° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |

(END OF REPORT)