

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: P565546

Luminaire Tested: **2SNX-23SL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNX-23SL-FDL-UNV-L830-CD
Description: 2FT 2300 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

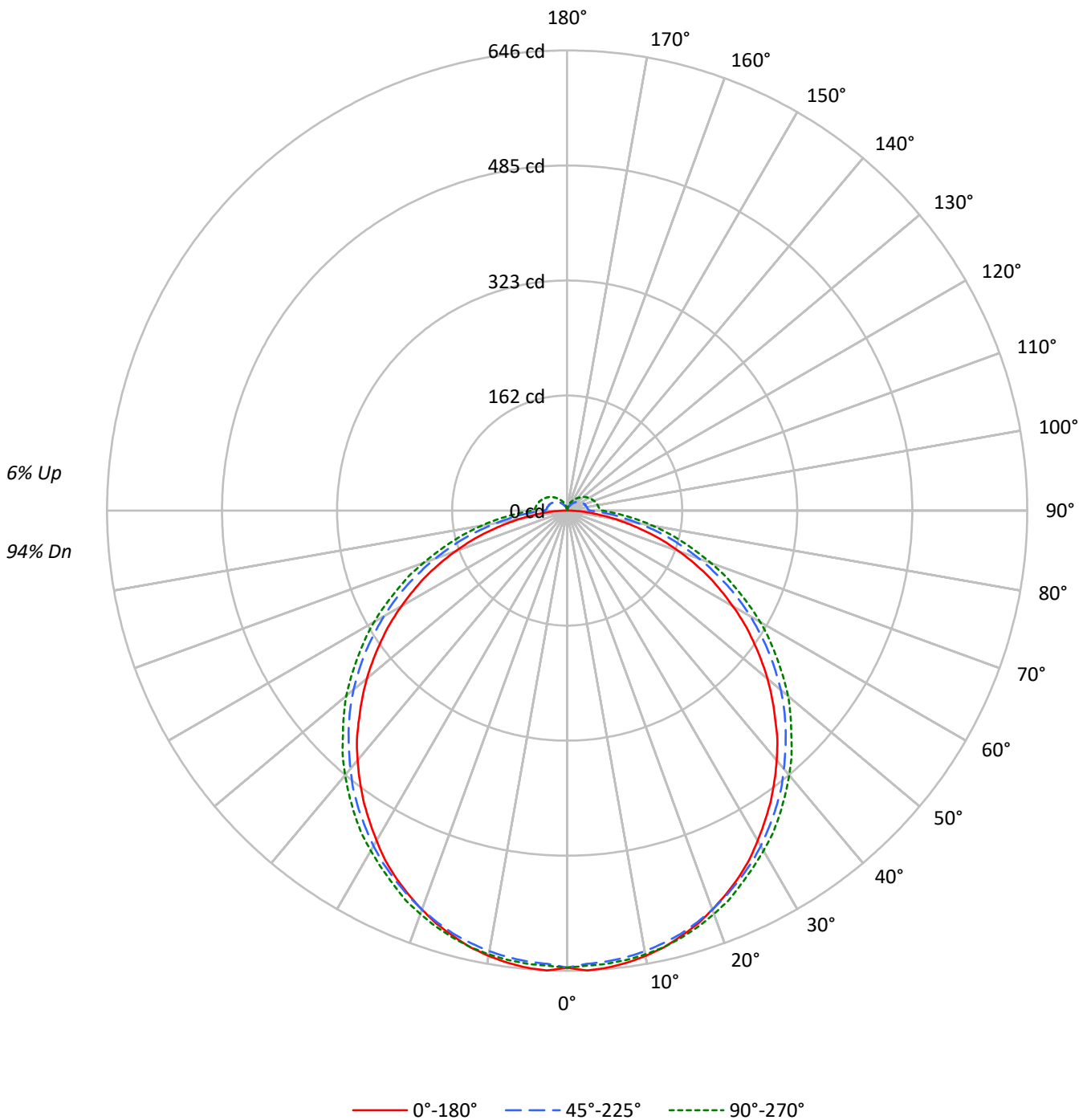
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2039.0 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.04')
CIE Type: Direct

Input Watts (W): 14.9
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

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Luminous Intensity Polar Plot





TEST NUMBER: P565546

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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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 94 |
| 1 | 107 | 102 | 97 | 93 | 103 | 99 | 95 | 91 | 93 | 90 | 87 | 88 | 86 | 83 | 84 | 82 | 80 | 77 |
| 2 | 97 | 88 | 81 | 75 | 93 | 86 | 79 | 74 | 81 | 76 | 71 | 77 | 73 | 69 | 73 | 69 | 66 | 64 |
| 3 | 88 | 77 | 69 | 62 | 85 | 75 | 67 | 61 | 71 | 65 | 59 | 68 | 62 | 57 | 64 | 60 | 56 | 53 |
| 4 | 80 | 68 | 59 | 52 | 78 | 66 | 58 | 52 | 63 | 56 | 50 | 60 | 54 | 49 | 57 | 52 | 48 | 45 |
| 5 | 74 | 61 | 52 | 45 | 71 | 59 | 51 | 44 | 56 | 49 | 43 | 54 | 47 | 42 | 51 | 46 | 41 | 39 |
| 6 | 68 | 55 | 46 | 39 | 66 | 53 | 45 | 39 | 51 | 43 | 38 | 49 | 42 | 37 | 47 | 41 | 36 | 34 |
| 7 | 63 | 49 | 41 | 34 | 61 | 48 | 40 | 34 | 46 | 39 | 33 | 44 | 38 | 33 | 43 | 37 | 32 | 30 |
| 8 | 59 | 45 | 36 | 31 | 57 | 44 | 36 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 39 | 33 | 29 | 27 |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 33 | 27 | 39 | 32 | 27 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |
| 10 | 51 | 38 | 30 | 25 | 50 | 37 | 30 | 25 | 36 | 29 | 24 | 35 | 28 | 24 | 33 | 28 | 24 | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13812 | 13812 | 13812 |
| 5° | 13896 | 13576 | 13604 |
| 10° | 13826 | 13421 | 13434 |
| 15° | 13708 | 13243 | 13242 |
| 20° | 13554 | 13028 | 13016 |
| 25° | 13379 | 12794 | 12748 |
| 30° | 13144 | 12557 | 12504 |
| 35° | 12907 | 12279 | 12245 |
| 40° | 12644 | 11972 | 11955 |
| 45° | 12320 | 11666 | 11618 |
| 50° | 12000 | 11320 | 11311 |
| 55° | 11609 | 10894 | 10881 |
| 60° | 11162 | 10406 | 10461 |
| 65° | 10688 | 9824 | 9877 |
| 70° | 9889 | 9094 | 9274 |
| 75° | 8914 | 8235 | 8554 |
| 80° | 7484 | 7105 | 7756 |
| 85° | 5626 | 6098 | 6819 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 60.9 | 3.0 |
| 10°-20° | 174.6 | 8.6 |
| 20°-30° | 264.6 | 13.0 |
| 30°-40° | 319.4 | 15.7 |
| 40°-50° | 333.6 | 16.4 |
| 50°-60° | 306.5 | 15.0 |
| 60°-70° | 242.3 | 11.9 |
| 70°-80° | 153.4 | 7.5 |
| 80°-90° | 65.9 | 3.2 |
| 90°-100° | 29.0 | 1.4 |
| 100°-110° | 26.0 | 1.3 |
| 110°-120° | 21.9 | 1.1 |
| 120°-130° | 17.1 | 0.8 |
| 130°-140° | 11.8 | 0.6 |
| 140°-150° | 7.1 | 0.3 |
| 150°-160° | 3.5 | 0.2 |
| 160°-170° | 1.2 | 0.1 |
| 170°-180° | 0.2 | 0.0 |
| 0°-30° | 500.1 | 24.5 |
| 0°-40° | 819.5 | 40.2 |
| 0°-60° | 1459.6 | 71.6 |
| 0°-90° | 1921.2 | 94.2 |
| 90°-120° | 76.9 | 3.8 |
| 90°-150° | 113.0 | 5.5 |
| 90°-180° | 118.0 | 5.8 |
| 0°-180° | 2039.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 642 | 642 | 642 | 642 | 642 | |
| 5° | 644 | 642 | 636 | 641 | 639 | 61 |
| 15° | 618 | 618 | 615 | 622 | 621 | 174 |
| 25° | 569 | 571 | 572 | 580 | 578 | 262 |
| 35° | 498 | 504 | 511 | 518 | 520 | 312 |
| 45° | 413 | 423 | 434 | 442 | 445 | 319 |
| 55° | 318 | 332 | 345 | 356 | 359 | 285 |
| 65° | 219 | 232 | 248 | 259 | 263 | 216 |
| 75° | 116 | 129 | 148 | 161 | 167 | 122 |
| 85° | 28 | 43 | 62 | 76 | 80 | 31 |
| 90° | 2 | 16 | 32 | 44 | 49 | 2 |
| 95° | 0 | 13 | 29 | 40 | 45 | 0 |
| 105° | 0 | 12 | 27 | 38 | 42 | 0 |
| 115° | 0 | 10 | 25 | 34 | 38 | 0 |
| 125° | 1 | 9 | 21 | 30 | 33 | 1 |
| 135° | 1 | 7 | 17 | 24 | 26 | 1 |
| 145° | 1 | 5 | 12 | 18 | 20 | 0 |
| 155° | 1 | 4 | 8 | 11 | 13 | 0 |
| 165° | 1 | 2 | 4 | 5 | 8 | 0 |
| 175° | 1 | 1 | 2 | 2 | 1 | 0 |
| 180° | 1 | 1 | 1 | 1 | 1 | |



TEST NUMBER: P565546

CATALOG NUMBER: 2SNX-23SL-FDL-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 641.6 | 641.6 | 641.6 | 641.6 | 641.6 |
| 2.5° | 646.3 | 644.2 | 636.9 | 642.0 | 639.5 |
| 5° | 644.2 | 642.4 | 635.5 | 640.9 | 638.7 |
| 7.5° | 640.2 | 638.7 | 632.6 | 638.4 | 636.2 |
| 10° | 634.8 | 633.7 | 628.3 | 634.1 | 632.6 |
| 12.5° | 627.9 | 627.6 | 622.1 | 628.6 | 627.6 |
| 15° | 618.5 | 618.5 | 615.3 | 621.8 | 620.7 |
| 17.5° | 608.4 | 608.8 | 606.2 | 613.1 | 612.4 |
| 20° | 596.1 | 597.9 | 596.1 | 603.4 | 602.6 |
| 22.5° | 582.8 | 585.3 | 584.6 | 591.8 | 592.2 |
| 25° | 568.7 | 571.2 | 571.9 | 579.5 | 578.4 |
| 27.5° | 553.2 | 557.1 | 558.6 | 565.4 | 565.1 |
| 30° | 535.1 | 540.5 | 543.8 | 549.6 | 551.4 |
| 32.5° | 516.7 | 523.2 | 527.2 | 535.1 | 537.3 |
| 35° | 498.3 | 504.1 | 510.6 | 518.5 | 520.3 |
| 37.5° | 478.1 | 484.6 | 493.2 | 500.8 | 503.0 |
| 40° | 457.8 | 465.1 | 473.4 | 481.7 | 484.9 |
| 42.5° | 436.9 | 444.5 | 453.5 | 463.3 | 466.5 |
| 45° | 413.1 | 423.2 | 434.0 | 442.3 | 445.2 |
| 47.5° | 390.3 | 401.5 | 413.1 | 422.1 | 425.3 |
| 50° | 367.2 | 379.1 | 391.4 | 399.7 | 404.8 |
| 52.5° | 343.0 | 356.0 | 368.3 | 378.8 | 382.0 |
| 55° | 318.5 | 331.5 | 345.2 | 356.4 | 358.9 |
| 57.5° | 294.6 | 307.3 | 321.0 | 331.5 | 336.5 |
| 60° | 268.6 | 282.4 | 297.2 | 307.6 | 313.1 |
| 62.5° | 243.4 | 256.7 | 272.6 | 283.8 | 288.1 |
| 65° | 219.2 | 231.5 | 247.7 | 259.3 | 263.2 |
| 67.5° | 192.5 | 206.5 | 222.1 | 235.4 | 240.5 |
| 70° | 166.1 | 179.5 | 197.1 | 209.8 | 214.8 |
| 72.5° | 141.5 | 154.5 | 172.2 | 184.9 | 189.6 |
| 75° | 115.5 | 129.3 | 148.0 | 160.7 | 166.8 |
| 77.5° | 90.6 | 105.8 | 123.8 | 137.6 | 144.4 |
| 80° | 67.5 | 80.9 | 100.4 | 115.5 | 121.7 |
| 82.5° | 45.9 | 60.3 | 80.5 | 94.6 | 101.5 |
| 85° | 28.2 | 43.3 | 62.1 | 75.5 | 80.2 |
| 87.5° | 13.4 | 27.8 | 45.1 | 58.1 | 63.9 |
| 90° | 1.8 | 15.5 | 31.8 | 44.4 | 49.1 |
| 92.5° | 0.4 | 13.4 | 29.2 | 41.2 | 45.5 |
| 95° | 0.4 | 13.4 | 28.9 | 40.4 | 44.8 |
| 97.5° | 0.4 | 13.0 | 28.5 | 40.1 | 44.1 |
| 100° | 0.4 | 12.6 | 28.2 | 39.4 | 43.7 |
| 102.5° | 0.4 | 12.6 | 27.4 | 38.6 | 42.6 |
| 105° | 0.4 | 12.3 | 27.1 | 37.9 | 41.9 |
| 107.5° | 0.4 | 11.9 | 26.4 | 37.2 | 41.2 |
| 110° | 0.4 | 11.2 | 26.0 | 36.1 | 40.1 |



TEST NUMBER: P565546

CATALOG NUMBER: 2SNX-23SL-FDL-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.4 | 10.8 | 25.3 | 35.4 | 39.0 |
| 115° | 0.4 | 10.5 | 24.6 | 34.3 | 37.9 |
| 117.5° | 0.4 | 10.1 | 23.5 | 33.2 | 36.8 |
| 120° | 0.7 | 10.1 | 22.7 | 32.1 | 35.4 |
| 122.5° | 0.7 | 9.7 | 21.7 | 30.7 | 33.9 |
| 125° | 0.7 | 9.4 | 20.6 | 29.6 | 32.9 |
| 127.5° | 0.7 | 9.0 | 19.5 | 28.2 | 31.1 |
| 130° | 0.7 | 8.3 | 18.8 | 26.7 | 29.6 |
| 132.5° | 0.7 | 7.9 | 17.7 | 24.9 | 27.8 |
| 135° | 0.7 | 7.2 | 16.6 | 23.5 | 26.4 |
| 137.5° | 0.7 | 6.9 | 15.5 | 22.0 | 24.6 |
| 140° | 0.7 | 6.5 | 14.1 | 20.6 | 23.1 |
| 142.5° | 0.7 | 5.8 | 13.0 | 19.1 | 21.3 |
| 145° | 0.7 | 5.4 | 11.6 | 17.7 | 19.5 |
| 147.5° | 0.7 | 4.7 | 10.5 | 16.2 | 18.1 |
| 150° | 0.7 | 4.3 | 9.4 | 14.8 | 16.6 |
| 152.5° | 0.7 | 4.0 | 8.3 | 13.0 | 14.8 |
| 155° | 0.7 | 3.6 | 7.6 | 11.2 | 13.4 |
| 157.5° | 0.7 | 3.2 | 6.5 | 9.7 | 11.9 |
| 160° | 1.1 | 2.9 | 5.8 | 8.3 | 10.1 |
| 162.5° | 1.1 | 2.5 | 4.7 | 6.9 | 9.0 |
| 165° | 1.1 | 2.5 | 4.0 | 5.4 | 7.6 |
| 167.5° | 1.1 | 2.2 | 3.2 | 4.3 | 6.1 |
| 170° | 1.1 | 1.8 | 2.9 | 3.2 | 4.7 |
| 172.5° | 1.1 | 1.4 | 2.2 | 2.2 | 2.5 |
| 175° | 1.1 | 1.4 | 1.8 | 1.8 | 1.1 |
| 177.5° | 1.1 | 1.1 | 1.1 | 1.1 | 0.7 |
| 180° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |

(END OF REPORT)