

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: P565571

Luminaire Tested: **2SNX-23SL-LW-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNX-23SL-LW-UNV-L835-CD
Description: 2FT 2300 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

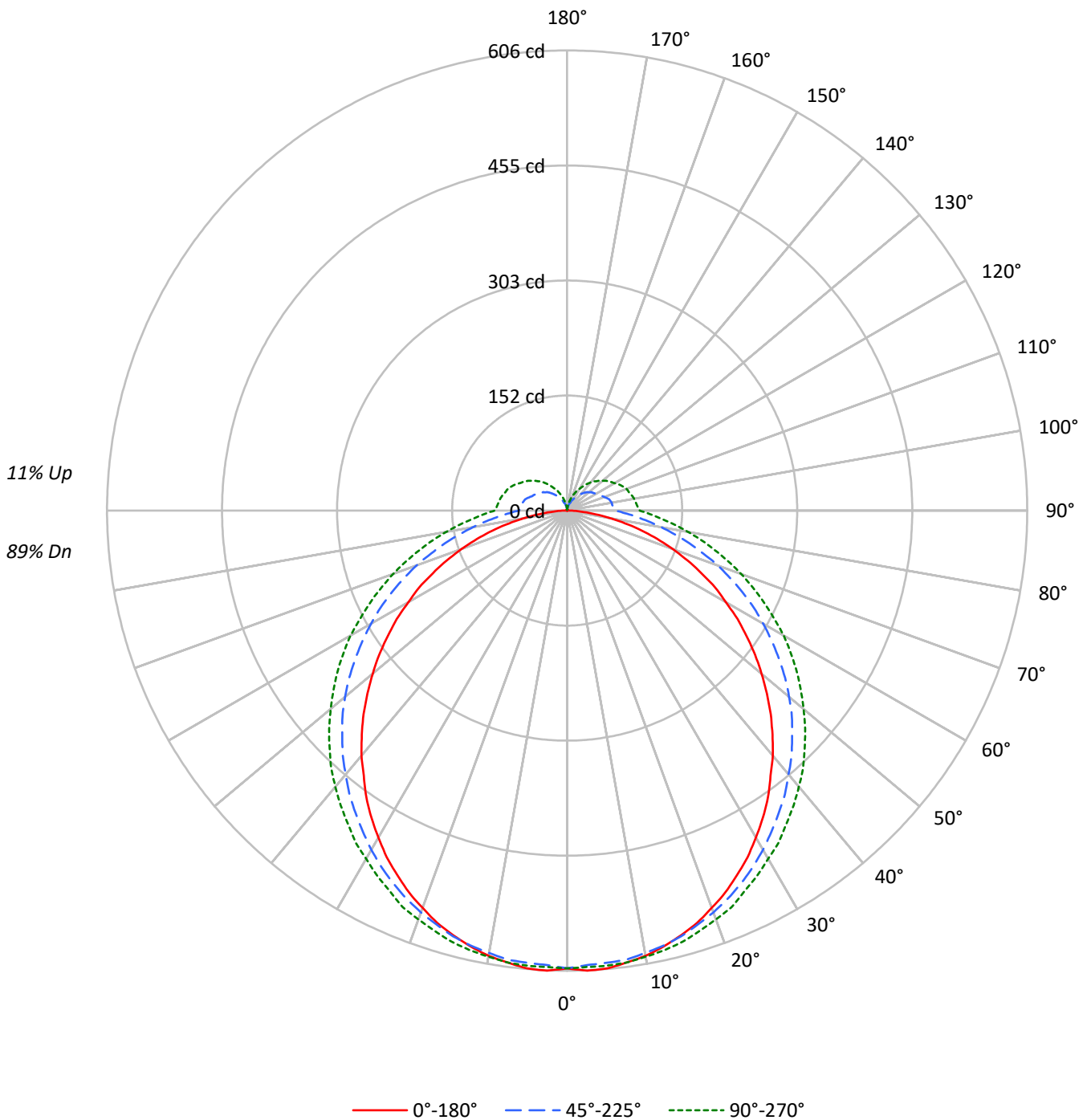
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2146.0 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 14.9
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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CATALOG NUMBER: 2SNX-23SL-LW-UNV-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P565571

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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 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 92 | 92 | 92 | 89 |
| 1 | 105 | 100 | 95 | 90 | 101 | 96 | 92 | 88 | 90 | 86 | 83 | 84 | 81 | 79 | 79 | 76 | 74 | 71 |
| 2 | 95 | 86 | 79 | 73 | 91 | 83 | 77 | 71 | 78 | 72 | 68 | 73 | 68 | 64 | 68 | 65 | 61 | 58 |
| 3 | 86 | 75 | 67 | 60 | 83 | 73 | 65 | 59 | 68 | 61 | 56 | 64 | 58 | 54 | 60 | 55 | 51 | 49 |
| 4 | 79 | 66 | 57 | 50 | 75 | 64 | 56 | 49 | 60 | 53 | 47 | 57 | 50 | 46 | 53 | 48 | 44 | 41 |
| 5 | 72 | 59 | 50 | 43 | 69 | 57 | 49 | 42 | 54 | 46 | 41 | 51 | 44 | 39 | 48 | 42 | 38 | 35 |
| 6 | 67 | 53 | 44 | 37 | 64 | 51 | 43 | 37 | 48 | 41 | 35 | 46 | 39 | 34 | 43 | 38 | 33 | 31 |
| 7 | 62 | 48 | 39 | 33 | 59 | 47 | 38 | 32 | 44 | 37 | 31 | 42 | 35 | 30 | 39 | 34 | 29 | 27 |
| 8 | 57 | 44 | 35 | 29 | 55 | 42 | 34 | 29 | 40 | 33 | 28 | 38 | 32 | 27 | 36 | 30 | 26 | 24 |
| 9 | 53 | 40 | 32 | 26 | 51 | 39 | 31 | 26 | 37 | 30 | 25 | 35 | 29 | 24 | 33 | 28 | 24 | 22 |
| 10 | 50 | 37 | 29 | 24 | 48 | 36 | 28 | 23 | 34 | 27 | 23 | 32 | 26 | 22 | 31 | 25 | 21 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12977 | 12977 | 12977 |
| 5° | 12986 | 12346 | 12284 |
| 10° | 12827 | 11826 | 11670 |
| 15° | 12627 | 11326 | 11117 |
| 20° | 12380 | 10811 | 10564 |
| 25° | 12107 | 10320 | 10022 |
| 30° | 11792 | 9816 | 9504 |
| 35° | 11450 | 9314 | 9019 |
| 40° | 11068 | 8824 | 8557 |
| 45° | 10654 | 8334 | 8083 |
| 50° | 10185 | 7831 | 7585 |
| 55° | 9673 | 7274 | 7097 |
| 60° | 9071 | 6694 | 6582 |
| 65° | 8431 | 6073 | 5994 |
| 70° | 7575 | 5413 | 5415 |
| 75° | 6465 | 4651 | 4803 |
| 80° | 4815 | 3882 | 4190 |
| 85° | 2834 | 3172 | 3562 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 57.3 | 2.7 |
| 10°-20° | 164.6 | 7.7 |
| 20°-30° | 250.2 | 11.7 |
| 30°-40° | 303.8 | 14.2 |
| 40°-50° | 321.0 | 15.0 |
| 50°-60° | 300.4 | 14.0 |
| 60°-70° | 246.5 | 11.5 |
| 70°-80° | 169.5 | 7.9 |
| 80°-90° | 92.8 | 4.3 |
| 90°-100° | 59.8 | 2.8 |
| 100°-110° | 53.6 | 2.5 |
| 110°-120° | 44.4 | 2.1 |
| 120°-130° | 34.2 | 1.6 |
| 130°-140° | 24.0 | 1.1 |
| 140°-150° | 14.5 | 0.7 |
| 150°-160° | 6.9 | 0.3 |
| 160°-170° | 2.3 | 0.1 |
| 170°-180° | 0.3 | 0.0 |
| 0°-30° | 472.1 | 22.0 |
| 0°-40° | 775.9 | 36.2 |
| 0°-60° | 1397.2 | 65.1 |
| 0°-90° | 1906.0 | 88.8 |
| 90°-120° | 157.8 | 7.4 |
| 90°-150° | 230.5 | 10.7 |
| 90°-180° | 240.0 | 11.2 |
| 0°-180° | 2146.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 603 | 603 | 603 | 603 | 603 | |
| 5° | 605 | 604 | 598 | 603 | 602 | 57 |
| 15° | 579 | 582 | 580 | 588 | 588 | 163 |
| 25° | 530 | 536 | 542 | 553 | 553 | 244 |
| 35° | 461 | 472 | 486 | 500 | 503 | 288 |
| 45° | 379 | 396 | 419 | 438 | 442 | 292 |
| 55° | 288 | 312 | 341 | 362 | 369 | 258 |
| 65° | 195 | 221 | 255 | 278 | 286 | 193 |
| 75° | 102 | 129 | 167 | 193 | 201 | 107 |
| 85° | 22 | 53 | 91 | 116 | 124 | 26 |
| 90° | 0 | 30 | 63 | 87 | 96 | 2 |
| 95° | 0 | 29 | 61 | 83 | 92 | 0 |
| 105° | 0 | 24 | 57 | 78 | 86 | 1 |
| 115° | 1 | 21 | 48 | 70 | 78 | 1 |
| 125° | 1 | 17 | 41 | 60 | 67 | 1 |
| 135° | 1 | 14 | 34 | 48 | 55 | 1 |
| 145° | 1 | 10 | 24 | 37 | 41 | 1 |
| 155° | 1 | 6 | 15 | 24 | 27 | 1 |
| 165° | 1 | 4 | 8 | 11 | 14 | 0 |
| 175° | 1 | 1 | 2 | 2 | 1 | 0 |
| 180° | 1 | 1 | 1 | 1 | 1 | |



TEST NUMBER: P565571

CATALOG NUMBER: 2SNX-23SL-LW-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 602.8 | 602.8 | 602.8 | 602.8 | 602.8 |
| 2.5° | 606.5 | 605.3 | 599.1 | 604.1 | 601.6 |
| 5° | 605.3 | 604.1 | 597.8 | 602.8 | 601.6 |
| 7.5° | 600.3 | 600.3 | 596.6 | 601.6 | 600.3 |
| 10° | 595.4 | 595.4 | 591.6 | 597.8 | 596.6 |
| 12.5° | 587.9 | 589.1 | 586.7 | 594.1 | 592.9 |
| 15° | 579.2 | 581.7 | 580.4 | 587.9 | 587.9 |
| 17.5° | 569.3 | 571.7 | 571.7 | 580.4 | 580.4 |
| 20° | 556.8 | 560.6 | 563.0 | 573.0 | 573.0 |
| 22.5° | 544.4 | 549.4 | 553.1 | 561.8 | 565.5 |
| 25° | 529.5 | 535.7 | 541.9 | 553.1 | 553.1 |
| 27.5° | 514.6 | 522.0 | 529.5 | 540.7 | 541.9 |
| 30° | 497.2 | 505.9 | 515.8 | 527.0 | 529.5 |
| 32.5° | 479.8 | 491.0 | 500.9 | 514.6 | 518.3 |
| 35° | 461.1 | 472.3 | 486.0 | 499.7 | 503.4 |
| 37.5° | 440.0 | 453.7 | 471.1 | 486.0 | 489.7 |
| 40° | 421.4 | 436.3 | 453.7 | 471.1 | 474.8 |
| 42.5° | 400.2 | 416.4 | 437.5 | 453.7 | 459.9 |
| 45° | 379.1 | 396.5 | 418.9 | 437.5 | 442.5 |
| 47.5° | 356.7 | 376.6 | 401.5 | 418.9 | 425.1 |
| 50° | 334.3 | 355.5 | 381.6 | 401.5 | 406.4 |
| 52.5° | 312.0 | 334.3 | 361.7 | 381.6 | 387.8 |
| 55° | 288.4 | 312.0 | 340.6 | 361.7 | 369.1 |
| 57.5° | 266.0 | 289.6 | 319.4 | 341.8 | 349.3 |
| 60° | 241.1 | 268.5 | 298.3 | 320.7 | 329.4 |
| 62.5° | 220.0 | 244.9 | 277.2 | 299.5 | 307.0 |
| 65° | 195.1 | 221.2 | 254.8 | 278.4 | 285.9 |
| 67.5° | 171.5 | 198.9 | 232.4 | 257.3 | 264.7 |
| 70° | 147.9 | 175.3 | 211.3 | 234.9 | 243.6 |
| 72.5° | 124.3 | 152.9 | 187.7 | 213.8 | 222.5 |
| 75° | 101.9 | 129.3 | 166.6 | 192.7 | 201.4 |
| 77.5° | 78.3 | 108.1 | 145.4 | 171.5 | 181.5 |
| 80° | 57.2 | 88.2 | 125.5 | 151.6 | 161.6 |
| 82.5° | 38.5 | 69.6 | 106.9 | 133.0 | 142.9 |
| 85° | 22.4 | 53.4 | 90.7 | 115.6 | 124.3 |
| 87.5° | 11.2 | 41.0 | 75.8 | 100.7 | 109.4 |
| 90° | 0.0 | 29.8 | 63.4 | 87.0 | 95.7 |
| 92.5° | 0.0 | 28.6 | 62.1 | 84.5 | 93.2 |
| 95° | 0.0 | 28.6 | 60.9 | 83.3 | 92.0 |
| 97.5° | 0.0 | 27.3 | 59.7 | 83.3 | 90.7 |
| 100° | 0.0 | 26.1 | 59.7 | 82.0 | 89.5 |
| 102.5° | 0.0 | 24.9 | 58.4 | 80.8 | 88.2 |
| 105° | 0.0 | 23.6 | 57.2 | 78.3 | 85.8 |
| 107.5° | 1.2 | 23.6 | 54.7 | 77.1 | 84.5 |
| 110° | 1.2 | 22.4 | 52.2 | 75.8 | 83.3 |



TEST NUMBER: P565571

CATALOG NUMBER: 2SNX-23SL-LW-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 1.2 | 21.1 | 49.7 | 73.3 | 80.8 |
| 115° | 1.2 | 21.1 | 48.5 | 69.6 | 78.3 |
| 117.5° | 1.2 | 19.9 | 46.0 | 67.1 | 75.8 |
| 120° | 1.2 | 19.9 | 44.7 | 64.6 | 72.1 |
| 122.5° | 1.2 | 18.6 | 42.3 | 62.1 | 69.6 |
| 125° | 1.2 | 17.4 | 41.0 | 59.7 | 67.1 |
| 127.5° | 1.2 | 16.2 | 39.8 | 57.2 | 64.6 |
| 130° | 1.2 | 14.9 | 37.3 | 54.7 | 60.9 |
| 132.5° | 1.2 | 14.9 | 36.0 | 51.0 | 58.4 |
| 135° | 1.2 | 13.7 | 33.6 | 48.5 | 54.7 |
| 137.5° | 1.2 | 12.4 | 31.1 | 46.0 | 52.2 |
| 140° | 1.2 | 11.2 | 28.6 | 43.5 | 48.5 |
| 142.5° | 1.2 | 11.2 | 26.1 | 39.8 | 44.7 |
| 145° | 1.2 | 9.9 | 23.6 | 37.3 | 41.0 |
| 147.5° | 1.2 | 8.7 | 21.1 | 33.6 | 37.3 |
| 150° | 1.2 | 8.7 | 18.6 | 29.8 | 33.6 |
| 152.5° | 1.2 | 7.5 | 16.2 | 27.3 | 31.1 |
| 155° | 1.2 | 6.2 | 14.9 | 23.6 | 27.3 |
| 157.5° | 1.2 | 6.2 | 12.4 | 19.9 | 23.6 |
| 160° | 1.2 | 5.0 | 11.2 | 16.2 | 19.9 |
| 162.5° | 1.2 | 5.0 | 9.9 | 13.7 | 17.4 |
| 165° | 1.2 | 3.7 | 7.5 | 11.2 | 13.7 |
| 167.5° | 1.2 | 3.7 | 6.2 | 8.7 | 11.2 |
| 170° | 1.2 | 2.5 | 5.0 | 6.2 | 8.7 |
| 172.5° | 1.2 | 2.5 | 3.7 | 3.7 | 3.7 |
| 175° | 1.2 | 1.2 | 2.5 | 2.5 | 1.2 |
| 177.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 180° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |

(END OF REPORT)