

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: P566163

Luminaire Tested: **4SNX-22SL-LW-UNV-L935-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566163  
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: 4SNX-22SL-LW-UNV-L935-CD  
Description: 4FT 2200 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

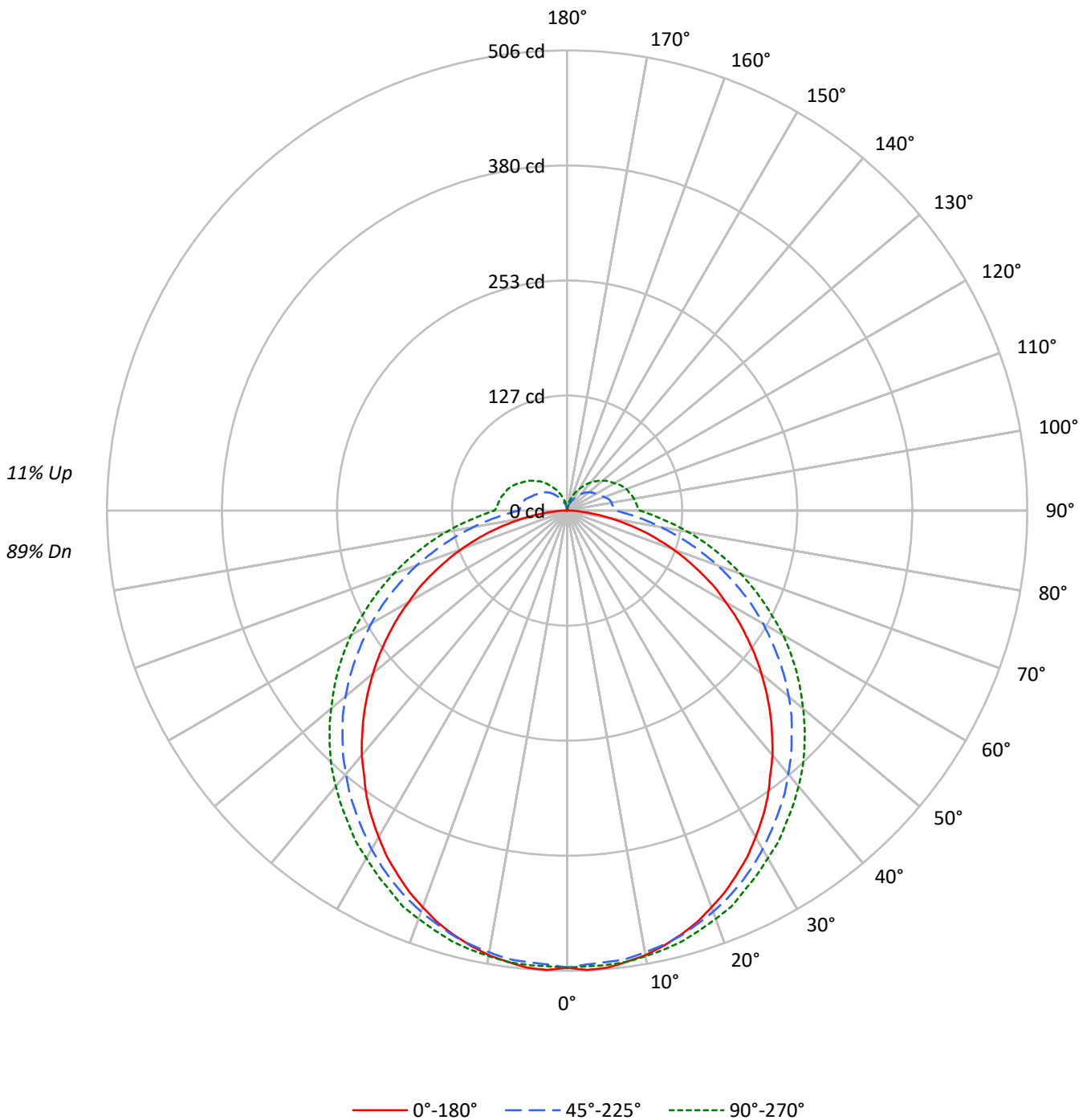
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1789.0 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 13.8  
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: P566163  
CATALOG NUMBER: 4SNX-22SL-LW-UNV-L935-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P566163

CATALOG NUMBER: 4SNX-22SL-LW-UNV-L935-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 | 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°  | 5409 | 5409 | 5409 |
| 5°  | 5432 | 5159 | 5120 |
| 10° | 5385 | 4953 | 4865 |
| 15° | 5321 | 4754 | 4634 |
| 20° | 5238 | 4548 | 4403 |
| 25° | 5142 | 4350 | 4178 |
| 30° | 5031 | 4146 | 3961 |
| 35° | 4908 | 3941 | 3759 |
| 40° | 4769 | 3742 | 3566 |
| 45° | 4618 | 3542 | 3369 |
| 50° | 4446 | 3336 | 3162 |
| 55° | 4258 | 3106 | 2958 |
| 60° | 4036 | 2867 | 2744 |
| 65° | 3804 | 2608 | 2498 |
| 70° | 3482 | 2332 | 2257 |
| 75° | 3059 | 2012 | 2002 |
| 80° | 2392 | 1690 | 1746 |
| 85° | 1564 | 1388 | 1484 |



TEST NUMBER: P566163

CATALOG NUMBER: 4SNX-22SL-LW-UNV-L935-CD

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 47.7   | 2.7       |
| 10°-20°   | 137.2  | 7.7       |
| 20°-30°   | 208.6  | 11.7      |
| 30°-40°   | 253.2  | 14.2      |
| 40°-50°   | 267.6  | 15.0      |
| 50°-60°   | 250.4  | 14.0      |
| 60°-70°   | 205.5  | 11.5      |
| 70°-80°   | 141.3  | 7.9       |
| 80°-90°   | 77.4   | 4.3       |
| 90°-100°  | 49.8   | 2.8       |
| 100°-110° | 44.7   | 2.5       |
| 110°-120° | 37.0   | 2.1       |
| 120°-130° | 28.5   | 1.6       |
| 130°-140° | 20.0   | 1.1       |
| 140°-150° | 12.1   | 0.7       |
| 150°-160° | 5.8    | 0.3       |
| 160°-170° | 1.9    | 0.1       |
| 170°-180° | 0.2    | 0.0       |
| 0°-30°    | 393.5  | 22.0      |
| 0°-40°    | 646.8  | 36.2      |
| 0°-60°    | 1164.8 | 65.1      |
| 0°-90°    | 1588.9 | 88.8      |
| 90°-120°  | 131.5  | 7.4       |
| 90°-150°  | 192.1  | 10.7      |
| 90°-180°  | 200.0  | 11.2      |
| 0°-180°   | 1789.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 502 | 502   | 502 | 502   | 502 |      |
| 5°   | 505 | 504   | 498 | 502   | 502 | 48   |
| 15°  | 483 | 485   | 484 | 490   | 490 | 136  |
| 25°  | 441 | 447   | 452 | 461   | 461 | 203  |
| 35°  | 384 | 394   | 405 | 416   | 420 | 240  |
| 45°  | 316 | 330   | 349 | 365   | 369 | 244  |
| 55°  | 240 | 260   | 284 | 302   | 308 | 215  |
| 65°  | 163 | 184   | 212 | 232   | 238 | 161  |
| 75°  | 85  | 108   | 139 | 161   | 168 | 89   |
| 85°  | 19  | 45    | 76  | 96    | 104 | 22   |
| 90°  | 0   | 25    | 53  | 72    | 80  | 1    |
| 95°  | 0   | 24    | 51  | 69    | 77  | 0    |
| 105° | 0   | 20    | 48  | 65    | 72  | 1    |
| 115° | 1   | 18    | 40  | 58    | 65  | 1    |
| 125° | 1   | 14    | 34  | 50    | 56  | 1    |
| 135° | 1   | 11    | 28  | 40    | 46  | 1    |
| 145° | 1   | 8     | 20  | 31    | 34  | 1    |
| 155° | 1   | 5     | 12  | 20    | 23  | 0    |
| 165° | 1   | 3     | 6   | 9     | 11  | 0    |
| 175° | 1   | 1     | 2   | 2     | 1   | 0    |
| 180° | 1   | 1     | 1   | 1     | 1   |      |



TEST NUMBER: P566163

CATALOG NUMBER: 4SNX-22SL-LW-UNV-L935-CD

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 502.5 | 502.5 | 502.5 | 502.5 | 502.5 |
| 2.5°   | 505.6 | 504.6 | 499.4 | 503.6 | 501.5 |
| 5°     | 504.6 | 503.6 | 498.4 | 502.5 | 501.5 |
| 7.5°   | 500.5 | 500.5 | 497.4 | 501.5 | 500.5 |
| 10°    | 496.3 | 496.3 | 493.2 | 498.4 | 497.4 |
| 12.5°  | 490.1 | 491.1 | 489.1 | 495.3 | 494.2 |
| 15°    | 482.8 | 484.9 | 483.9 | 490.1 | 490.1 |
| 17.5°  | 474.6 | 476.6 | 476.6 | 483.9 | 483.9 |
| 20°    | 464.2 | 467.3 | 469.4 | 477.7 | 477.7 |
| 22.5°  | 453.8 | 458.0 | 461.1 | 468.3 | 471.4 |
| 25°    | 441.4 | 446.6 | 451.8 | 461.1 | 461.1 |
| 27.5°  | 429.0 | 435.2 | 441.4 | 450.7 | 451.8 |
| 30°    | 414.5 | 421.7 | 430.0 | 439.3 | 441.4 |
| 32.5°  | 400.0 | 409.3 | 417.6 | 429.0 | 432.1 |
| 35°    | 384.4 | 393.7 | 405.1 | 416.5 | 419.6 |
| 37.5°  | 366.8 | 378.2 | 392.7 | 405.1 | 408.2 |
| 40°    | 351.3 | 363.7 | 378.2 | 392.7 | 395.8 |
| 42.5°  | 333.6 | 347.1 | 364.7 | 378.2 | 383.4 |
| 45°    | 316.0 | 330.5 | 349.2 | 364.7 | 368.9 |
| 47.5°  | 297.4 | 314.0 | 334.7 | 349.2 | 354.4 |
| 50°    | 278.7 | 296.3 | 318.1 | 334.7 | 338.8 |
| 52.5°  | 260.1 | 278.7 | 301.5 | 318.1 | 323.3 |
| 55°    | 240.4 | 260.1 | 283.9 | 301.5 | 307.7 |
| 57.5°  | 221.7 | 241.4 | 266.3 | 284.9 | 291.2 |
| 60°    | 201.0 | 223.8 | 248.7 | 267.3 | 274.6 |
| 62.5°  | 183.4 | 204.1 | 231.1 | 249.7 | 255.9 |
| 65°    | 162.7 | 184.4 | 212.4 | 232.1 | 238.3 |
| 67.5°  | 143.0 | 165.8 | 193.8 | 214.5 | 220.7 |
| 70°    | 123.3 | 146.1 | 176.1 | 195.8 | 203.1 |
| 72.5°  | 103.6 | 127.4 | 156.5 | 178.2 | 185.5 |
| 75°    | 85.0  | 107.8 | 138.8 | 160.6 | 167.9 |
| 77.5°  | 65.3  | 90.1  | 121.2 | 143.0 | 151.3 |
| 80°    | 47.7  | 73.6  | 104.7 | 126.4 | 134.7 |
| 82.5°  | 32.1  | 58.0  | 89.1  | 110.9 | 119.2 |
| 85°    | 18.7  | 44.6  | 75.6  | 96.4  | 103.6 |
| 87.5°  | 9.3   | 34.2  | 63.2  | 83.9  | 91.2  |
| 90°    | 0.0   | 24.9  | 52.8  | 72.5  | 79.8  |
| 92.5°  | 0.0   | 23.8  | 51.8  | 70.5  | 77.7  |
| 95°    | 0.0   | 23.8  | 50.8  | 69.4  | 76.7  |
| 97.5°  | 0.0   | 22.8  | 49.7  | 69.4  | 75.6  |
| 100°   | 0.0   | 21.8  | 49.7  | 68.4  | 74.6  |
| 102.5° | 0.0   | 20.7  | 48.7  | 67.3  | 73.6  |
| 105°   | 0.0   | 19.7  | 47.7  | 65.3  | 71.5  |
| 107.5° | 1.0   | 19.7  | 45.6  | 64.2  | 70.5  |
| 110°   | 1.0   | 18.7  | 43.5  | 63.2  | 69.4  |



TEST NUMBER: P566163

CATALOG NUMBER: 4SNX-22SL-LW-UNV-L935-CD

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 1.0 | 17.6  | 41.4 | 61.1  | 67.3 |
| 115°   | 1.0 | 17.6  | 40.4 | 58.0  | 65.3 |
| 117.5° | 1.0 | 16.6  | 38.3 | 56.0  | 63.2 |
| 120°   | 1.0 | 16.6  | 37.3 | 53.9  | 60.1 |
| 122.5° | 1.0 | 15.5  | 35.2 | 51.8  | 58.0 |
| 125°   | 1.0 | 14.5  | 34.2 | 49.7  | 56.0 |
| 127.5° | 1.0 | 13.5  | 33.2 | 47.7  | 53.9 |
| 130°   | 1.0 | 12.4  | 31.1 | 45.6  | 50.8 |
| 132.5° | 1.0 | 12.4  | 30.0 | 42.5  | 48.7 |
| 135°   | 1.0 | 11.4  | 28.0 | 40.4  | 45.6 |
| 137.5° | 1.0 | 10.4  | 25.9 | 38.3  | 43.5 |
| 140°   | 1.0 | 9.3   | 23.8 | 36.3  | 40.4 |
| 142.5° | 1.0 | 9.3   | 21.8 | 33.2  | 37.3 |
| 145°   | 1.0 | 8.3   | 19.7 | 31.1  | 34.2 |
| 147.5° | 1.0 | 7.3   | 17.6 | 28.0  | 31.1 |
| 150°   | 1.0 | 7.3   | 15.5 | 24.9  | 28.0 |
| 152.5° | 1.0 | 6.2   | 13.5 | 22.8  | 25.9 |
| 155°   | 1.0 | 5.2   | 12.4 | 19.7  | 22.8 |
| 157.5° | 1.0 | 5.2   | 10.4 | 16.6  | 19.7 |
| 160°   | 1.0 | 4.1   | 9.3  | 13.5  | 16.6 |
| 162.5° | 1.0 | 4.1   | 8.3  | 11.4  | 14.5 |
| 165°   | 1.0 | 3.1   | 6.2  | 9.3   | 11.4 |
| 167.5° | 1.0 | 3.1   | 5.2  | 7.3   | 9.3  |
| 170°   | 1.0 | 2.1   | 4.1  | 5.2   | 7.3  |
| 172.5° | 1.0 | 2.1   | 3.1  | 3.1   | 3.1  |
| 175°   | 1.0 | 1.0   | 2.1  | 2.1   | 1.0  |
| 177.5° | 1.0 | 1.0   | 1.0  | 1.0   | 1.0  |
| 180°   | 1.0 | 1.0   | 1.0  | 1.0   | 1.0  |

(END OF REPORT)