

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: P565766

Luminaire Tested: **2SNX-44HL-LW-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565766  
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: 2SNX-44HL-LW-UNV-L930-CD  
Description: 2FT 4400 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

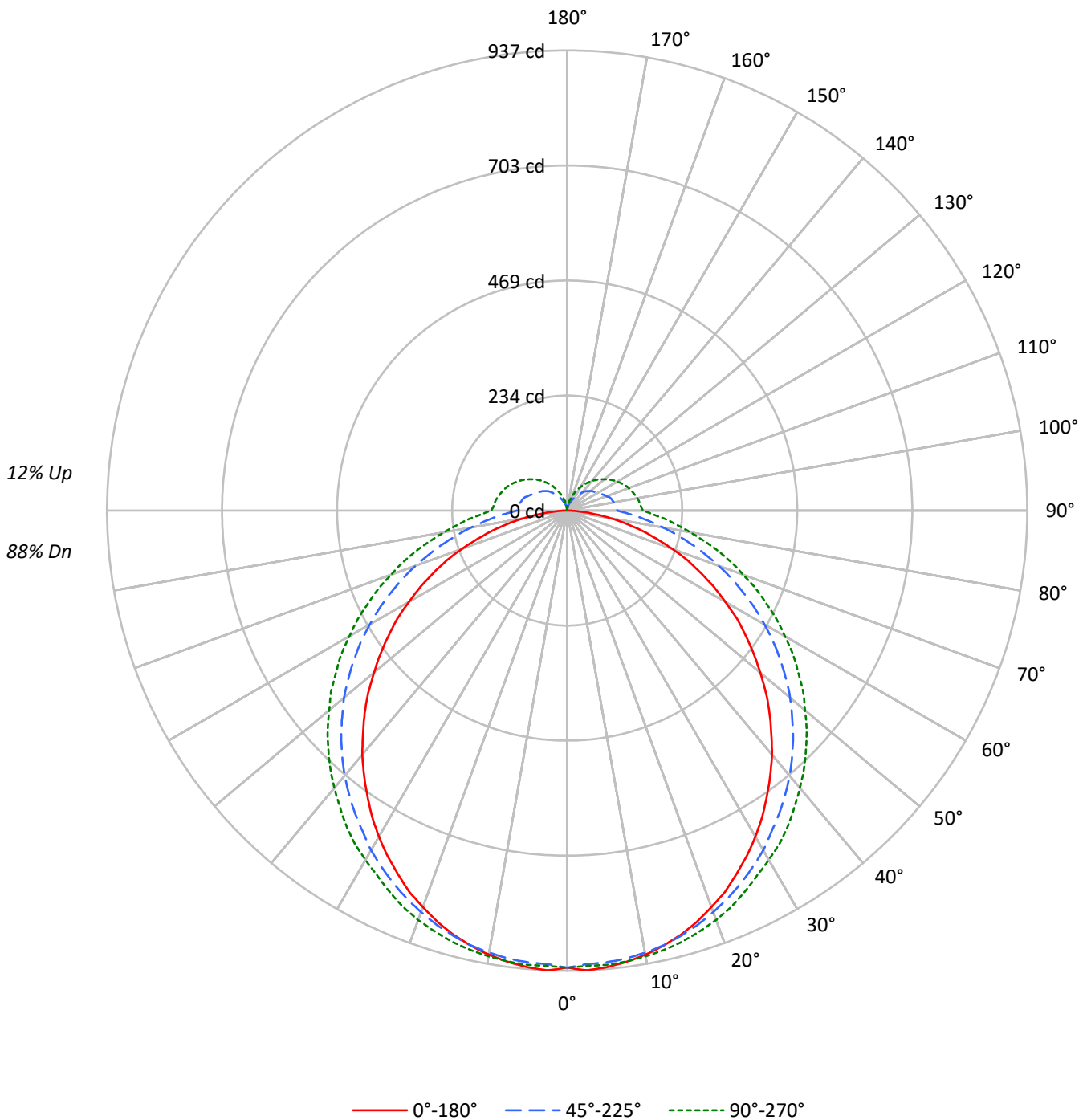
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3351.0 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 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): 31.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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





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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 |  | 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°  | 20038 | 20038 | 20038 |
| 5°  | 20018 | 19068 | 18959 |
| 10° | 19781 | 18273 | 18027 |
| 15° | 19492 | 17491 | 17177 |
| 20° | 19100 | 16706 | 16356 |
| 25° | 18658 | 15943 | 15514 |
| 30° | 18184 | 15202 | 14740 |
| 35° | 17613 | 14429 | 14045 |
| 40° | 17047 | 13705 | 13289 |
| 45° | 16384 | 12945 | 12568 |
| 50° | 15629 | 12165 | 11803 |
| 55° | 14879 | 11313 | 11044 |
| 60° | 14012 | 10417 | 10229 |
| 65° | 12969 | 9450  | 9384  |
| 70° | 11667 | 8407  | 8469  |
| 75° | 9904  | 7273  | 7595  |
| 80° | 7535  | 6143  | 6592  |
| 85° | 4352  | 5058  | 5754  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 88.4   | 2.6       |
| 10°-20°   | 254.2  | 7.6       |
| 20°-30°   | 386.7  | 11.5      |
| 30°-40°   | 470.2  | 14.0      |
| 40°-50°   | 497.4  | 14.8      |
| 50°-60°   | 466.3  | 13.9      |
| 60°-70°   | 383.6  | 11.4      |
| 70°-80°   | 265.4  | 7.9       |
| 80°-90°   | 147.6  | 4.4       |
| 90°-100°  | 97.2   | 2.9       |
| 100°-110° | 87.2   | 2.6       |
| 110°-120° | 72.2   | 2.2       |
| 120°-130° | 55.8   | 1.7       |
| 130°-140° | 39.5   | 1.2       |
| 140°-150° | 23.8   | 0.7       |
| 150°-160° | 11.4   | 0.3       |
| 160°-170° | 3.7    | 0.1       |
| 170°-180° | 0.5    | 0.0       |
| 0°-30°    | 729.2  | 21.8      |
| 0°-40°    | 1199.4 | 35.8      |
| 0°-60°    | 2163.1 | 64.6      |
| 0°-90°    | 2959.7 | 88.3      |
| 90°-120°  | 256.6  | 7.7       |
| 90°-150°  | 375.7  | 11.2      |
| 90°-180°  | 391.0  | 11.7      |
| 0°-180°   | 3351.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 931 | 931   | 931 | 931   | 931 |      |
| 5°   | 933 | 931   | 923 | 931   | 928 | 89   |
| 15°  | 894 | 897   | 896 | 908   | 908 | 252  |
| 25°  | 816 | 828   | 837 | 856   | 856 | 376  |
| 35°  | 709 | 728   | 753 | 777   | 784 | 444  |
| 45°  | 583 | 613   | 651 | 680   | 688 | 449  |
| 55°  | 444 | 483   | 530 | 563   | 574 | 397  |
| 65°  | 300 | 343   | 396 | 436   | 448 | 298  |
| 75°  | 156 | 201   | 260 | 302   | 318 | 166  |
| 85°  | 34  | 86    | 145 | 185   | 201 | 40   |
| 90°  | 1   | 48    | 102 | 141   | 154 | 2    |
| 95°  | 1   | 46    | 99  | 136   | 149 | 0    |
| 105° | 1   | 40    | 93  | 128   | 139 | 1    |
| 115° | 1   | 34    | 79  | 114   | 126 | 1    |
| 125° | 1   | 29    | 67  | 97    | 109 | 1    |
| 135° | 1   | 23    | 56  | 80    | 90  | 1    |
| 145° | 1   | 17    | 39  | 60    | 68  | 1    |
| 155° | 2   | 12    | 24  | 38    | 45  | 1    |
| 165° | 2   | 8     | 13  | 18    | 23  | 0    |
| 175° | 2   | 3     | 4   | 4     | 2   | 0    |
| 180° | 1   | 1     | 1   | 1     | 1   |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 930.8 | 930.8 | 930.8 | 930.8 | 930.8 |
| 2.5°   | 937.1 | 934.2 | 924.5 | 930.8 | 927.9 |
| 5°     | 933.1 | 931.4 | 923.3 | 930.8 | 928.5 |
| 7.5°   | 926.8 | 926.2 | 919.9 | 928.5 | 926.2 |
| 10°    | 918.2 | 919.3 | 914.1 | 923.3 | 921.6 |
| 12.5°  | 907.3 | 909.0 | 906.7 | 917.0 | 915.9 |
| 15°    | 894.1 | 896.9 | 896.3 | 908.4 | 908.4 |
| 17.5°  | 878.0 | 882.0 | 884.3 | 898.1 | 898.1 |
| 20°    | 859.0 | 865.4 | 870.0 | 884.9 | 887.2 |
| 22.5°  | 840.1 | 847.6 | 854.5 | 870.0 | 873.4 |
| 25°    | 816.0 | 827.5 | 837.2 | 855.6 | 856.2 |
| 27.5°  | 792.5 | 805.1 | 818.3 | 836.1 | 837.8 |
| 30°    | 766.7 | 782.7 | 798.8 | 816.0 | 821.2 |
| 32.5°  | 739.1 | 756.9 | 774.7 | 797.6 | 804.5 |
| 35°    | 709.3 | 728.2 | 752.9 | 777.0 | 783.9 |
| 37.5°  | 679.4 | 700.7 | 729.4 | 754.0 | 760.3 |
| 40°    | 649.0 | 672.5 | 704.7 | 729.9 | 737.4 |
| 42.5°  | 615.2 | 643.9 | 678.3 | 705.3 | 713.9 |
| 45°    | 583.0 | 613.4 | 650.7 | 680.0 | 688.0 |
| 47.5°  | 549.2 | 581.3 | 621.5 | 652.5 | 661.6 |
| 50°    | 513.0 | 549.7 | 592.8 | 623.8 | 632.4 |
| 52.5°  | 479.2 | 516.5 | 561.8 | 593.9 | 606.0 |
| 55°    | 443.6 | 483.2 | 529.7 | 562.9 | 574.4 |
| 57.5°  | 410.3 | 448.2 | 498.1 | 531.4 | 545.7 |
| 60°    | 372.4 | 414.3 | 464.2 | 500.4 | 511.9 |
| 62.5°  | 336.8 | 379.3 | 431.0 | 468.3 | 481.5 |
| 65°    | 300.1 | 343.2 | 396.5 | 435.5 | 447.6 |
| 67.5°  | 265.7 | 308.2 | 362.7 | 401.1 | 416.6 |
| 70°    | 227.8 | 272.6 | 328.2 | 367.8 | 381.0 |
| 72.5°  | 190.5 | 237.0 | 293.8 | 336.3 | 351.2 |
| 75°    | 156.1 | 201.4 | 260.5 | 301.8 | 318.5 |
| 77.5°  | 122.8 | 168.7 | 228.4 | 270.9 | 285.2 |
| 80°    | 89.5  | 137.7 | 198.6 | 240.4 | 254.2 |
| 82.5°  | 59.1  | 109.6 | 169.9 | 211.7 | 226.7 |
| 85°    | 34.4  | 85.5  | 144.6 | 184.8 | 200.8 |
| 87.5°  | 14.9  | 64.8  | 121.1 | 160.7 | 173.9 |
| 90°    | 0.6   | 48.2  | 102.1 | 140.6 | 154.4 |
| 92.5°  | 0.6   | 47.1  | 99.8  | 137.7 | 150.9 |
| 95°    | 0.6   | 45.9  | 99.3  | 136.0 | 149.2 |
| 97.5°  | 0.6   | 45.3  | 98.1  | 134.9 | 147.5 |
| 100°   | 0.6   | 43.6  | 96.4  | 132.6 | 145.2 |
| 102.5° | 0.6   | 41.3  | 94.7  | 130.3 | 142.3 |
| 105°   | 0.6   | 39.6  | 93.0  | 128.0 | 139.4 |
| 107.5° | 0.6   | 37.9  | 90.1  | 125.1 | 136.6 |
| 110°   | 0.6   | 36.2  | 85.5  | 122.2 | 133.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°   |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.6 | 35.6  | 82.1 | 118.2 | 130.3 |
| 115°   | 1.1 | 34.4  | 78.6 | 113.6 | 126.2 |
| 117.5° | 1.1 | 33.9  | 75.7 | 109.0 | 122.2 |
| 120°   | 1.1 | 32.1  | 72.9 | 105.0 | 117.6 |
| 122.5° | 1.1 | 30.4  | 70.0 | 101.0 | 113.6 |
| 125°   | 1.1 | 29.3  | 67.1 | 97.0  | 109.0 |
| 127.5° | 1.1 | 27.5  | 64.8 | 93.0  | 103.9 |
| 130°   | 1.1 | 26.4  | 62.0 | 88.4  | 99.3  |
| 132.5° | 1.1 | 24.7  | 59.1 | 83.8  | 94.1  |
| 135°   | 1.1 | 23.0  | 56.2 | 79.8  | 89.5  |
| 137.5° | 1.1 | 20.7  | 52.8 | 75.2  | 84.4  |
| 140°   | 1.1 | 18.9  | 48.2 | 70.6  | 79.2  |
| 142.5° | 1.1 | 17.8  | 43.6 | 65.4  | 73.5  |
| 145°   | 1.1 | 16.6  | 39.0 | 60.3  | 67.7  |
| 147.5° | 1.1 | 15.5  | 35.0 | 55.1  | 62.0  |
| 150°   | 1.1 | 13.8  | 31.0 | 50.5  | 56.2  |
| 152.5° | 1.7 | 12.6  | 27.5 | 44.8  | 50.5  |
| 155°   | 1.7 | 11.5  | 24.1 | 38.4  | 44.8  |
| 157.5° | 1.7 | 10.3  | 20.7 | 32.1  | 39.0  |
| 160°   | 1.7 | 9.2   | 17.8 | 26.4  | 33.3  |
| 162.5° | 1.7 | 8.6   | 15.5 | 21.8  | 28.1  |
| 165°   | 1.7 | 7.5   | 13.2 | 17.8  | 23.0  |
| 167.5° | 1.7 | 5.7   | 10.9 | 13.8  | 18.9  |
| 170°   | 1.7 | 4.6   | 8.6  | 9.8   | 14.3  |
| 172.5° | 1.7 | 3.4   | 6.3  | 6.9   | 7.5   |
| 175°   | 1.7 | 2.9   | 4.0  | 4.0   | 2.3   |
| 177.5° | 1.7 | 2.3   | 2.3  | 2.3   | 1.1   |
| 180°   | 1.1 | 1.1   | 1.1  | 1.1   | 1.1   |

(END OF REPORT)