

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: P566455

Luminaire Tested: **4SNX-45SL-SLW-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566455  
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-45SL-SLW-UNV-L835-CD  
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

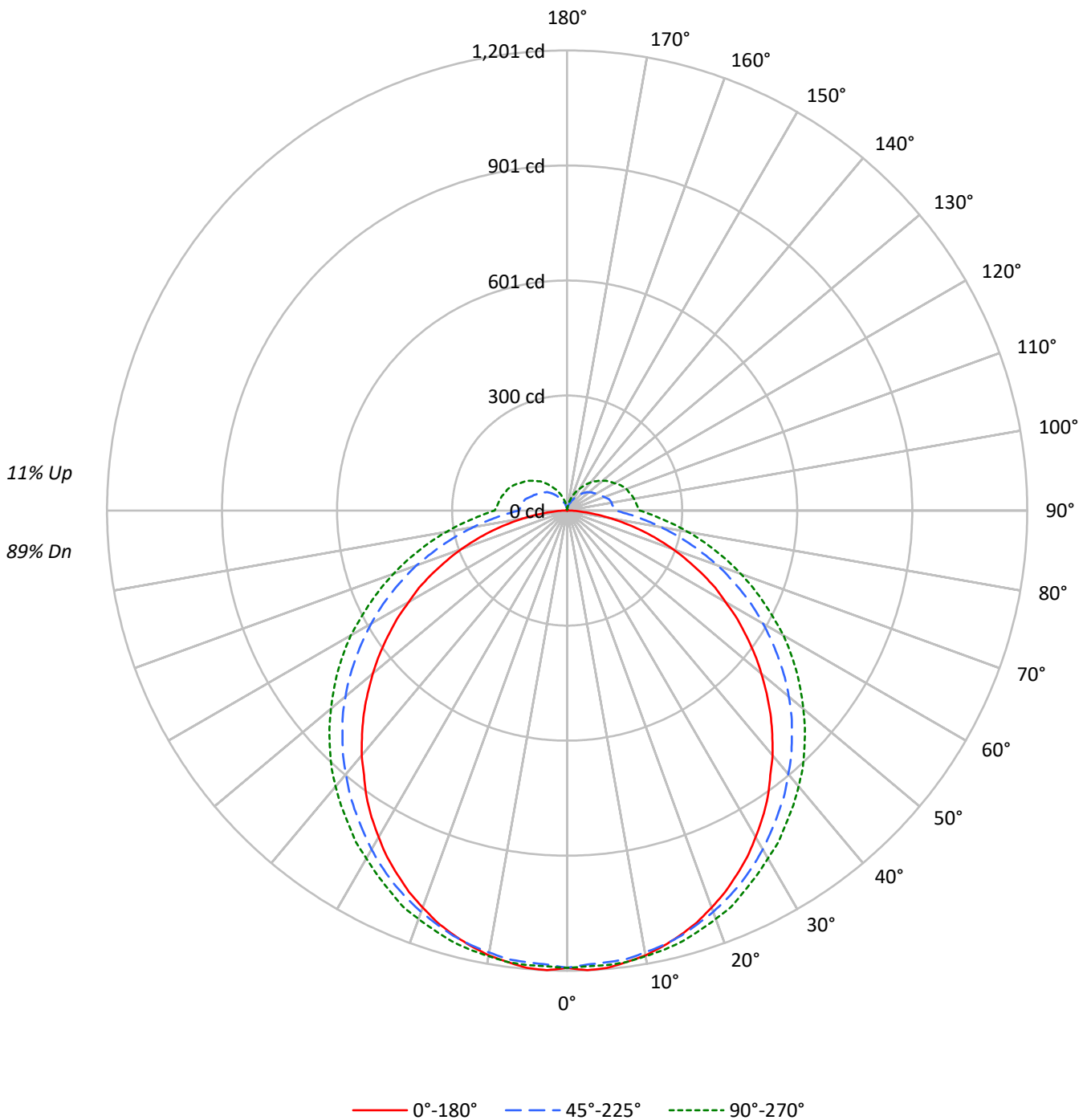
Lumens per Lamp: N/A  
Luminaire Lumens: 4248.0 lumens  
Efficiency: N/A  
Efficacy: 142.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 29.8  
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

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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 | 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  | 76  | 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°  | 12845 | 12845 | 12845 |
| 5°  | 12923 | 12514 | 12503 |
| 10° | 12834 | 12261 | 12194 |
| 15° | 12706 | 12002 | 11908 |
| 20° | 12531 | 11704 | 11591 |
| 25° | 12329 | 11413 | 11260 |
| 30° | 12087 | 11093 | 10932 |
| 35° | 11823 | 10761 | 10623 |
| 40° | 11520 | 10434 | 10329 |
| 45° | 11191 | 10101 | 10010 |
| 50° | 10815 | 9750  | 9653  |
| 55° | 10404 | 9328  | 9302  |
| 60° | 9919  | 8877  | 8912  |
| 65° | 9420  | 8370  | 8419  |
| 70° | 8718  | 7811  | 7936  |
| 75° | 7786  | 7101  | 7404  |
| 80° | 6278  | 6379  | 6876  |
| 85° | 4422  | 5760  | 6336  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.3  | 2.7       |
| 10°-20°   | 325.8  | 7.7       |
| 20°-30°   | 495.4  | 11.7      |
| 30°-40°   | 601.3  | 14.2      |
| 40°-50°   | 635.4  | 15.0      |
| 50°-60°   | 594.6  | 14.0      |
| 60°-70°   | 487.9  | 11.5      |
| 70°-80°   | 335.6  | 7.9       |
| 80°-90°   | 183.8  | 4.3       |
| 90°-100°  | 118.3  | 2.8       |
| 100°-110° | 106.2  | 2.5       |
| 110°-120° | 87.9   | 2.1       |
| 120°-130° | 67.7   | 1.6       |
| 130°-140° | 47.6   | 1.1       |
| 140°-150° | 28.7   | 0.7       |
| 150°-160° | 13.7   | 0.3       |
| 160°-170° | 4.5    | 0.1       |
| 170°-180° | 0.5    | 0.0       |
| 0°-30°    | 934.5  | 22.0      |
| 0°-40°    | 1535.8 | 36.2      |
| 0°-60°    | 2765.7 | 65.1      |
| 0°-90°    | 3772.9 | 88.8      |
| 90°-120°  | 312.4  | 7.4       |
| 90°-150°  | 456.3  | 10.7      |
| 90°-180°  | 475.0  | 11.2      |
| 0°-180°   | 4248.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1193 | 1193  | 1193 | 1193  | 1193 |      |
| 5°   | 1198 | 1196  | 1183 | 1193  | 1191 | 114  |
| 15°  | 1146 | 1151  | 1149 | 1164  | 1164 | 323  |
| 25°  | 1048 | 1060  | 1073 | 1095  | 1095 | 483  |
| 35°  | 913  | 935   | 962  | 989   | 996  | 570  |
| 45°  | 750  | 785   | 829  | 866   | 876  | 578  |
| 55°  | 571  | 618   | 674  | 716   | 731  | 511  |
| 65°  | 386  | 438   | 504  | 551   | 566  | 383  |
| 75°  | 202  | 256   | 330  | 381   | 399  | 212  |
| 85°  | 44   | 106   | 180  | 229   | 246  | 51   |
| 90°  | 0    | 59    | 126  | 172   | 189  | 3    |
| 95°  | 0    | 57    | 121  | 165   | 182  | 0    |
| 105° | 0    | 47    | 113  | 155   | 170  | 2    |
| 115° | 2    | 42    | 96   | 138   | 155  | 2    |
| 125° | 2    | 34    | 81   | 118   | 133  | 2    |
| 135° | 2    | 27    | 66   | 96    | 108  | 2    |
| 145° | 2    | 20    | 47   | 74    | 81   | 2    |
| 155° | 2    | 12    | 30   | 47    | 54   | 1    |
| 165° | 2    | 7     | 15   | 22    | 27   | 1    |
| 175° | 2    | 2     | 5    | 5     | 2    | 0    |
| 180° | 2    | 2     | 2    | 2     | 2    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1193.3 | 1193.3 | 1193.3 | 1193.3 | 1193.3 |
| 2.5°   | 1200.7 | 1198.2 | 1185.9 | 1195.7 | 1190.8 |
| 5°     | 1198.2 | 1195.7 | 1183.4 | 1193.3 | 1190.8 |
| 7.5°   | 1188.4 | 1188.4 | 1181.0 | 1190.8 | 1188.4 |
| 10°    | 1178.5 | 1178.5 | 1171.1 | 1183.4 | 1181.0 |
| 12.5°  | 1163.7 | 1166.2 | 1161.3 | 1176.1 | 1173.6 |
| 15°    | 1146.5 | 1151.4 | 1149.0 | 1163.7 | 1163.7 |
| 17.5°  | 1126.8 | 1131.8 | 1131.8 | 1149.0 | 1149.0 |
| 20°    | 1102.2 | 1109.6 | 1114.5 | 1134.2 | 1134.2 |
| 22.5°  | 1077.6 | 1087.5 | 1094.9 | 1112.1 | 1119.5 |
| 25°    | 1048.1 | 1060.4 | 1072.7 | 1094.9 | 1094.9 |
| 27.5°  | 1018.6 | 1033.3 | 1048.1 | 1070.3 | 1072.7 |
| 30°    | 984.1  | 1001.4 | 1021.0 | 1043.2 | 1048.1 |
| 32.5°  | 949.7  | 971.8  | 991.5  | 1018.6 | 1026.0 |
| 35°    | 912.8  | 934.9  | 962.0  | 989.1  | 996.4  |
| 37.5°  | 871.0  | 898.0  | 932.5  | 962.0  | 969.4  |
| 40°    | 834.1  | 863.6  | 898.0  | 932.5  | 939.9  |
| 42.5°  | 792.2  | 824.2  | 866.0  | 898.0  | 910.3  |
| 45°    | 750.4  | 784.9  | 829.1  | 866.0  | 875.9  |
| 47.5°  | 706.1  | 745.5  | 794.7  | 829.1  | 841.4  |
| 50°    | 661.8  | 703.7  | 755.3  | 794.7  | 804.5  |
| 52.5°  | 617.5  | 661.8  | 716.0  | 755.3  | 767.6  |
| 55°    | 570.8  | 617.5  | 674.1  | 716.0  | 730.7  |
| 57.5°  | 526.5  | 573.3  | 632.3  | 676.6  | 691.4  |
| 60°    | 477.3  | 531.4  | 590.5  | 634.8  | 652.0  |
| 62.5°  | 435.5  | 484.7  | 548.7  | 592.9  | 607.7  |
| 65°    | 386.3  | 437.9  | 504.4  | 551.1  | 565.9  |
| 67.5°  | 339.5  | 393.7  | 460.1  | 509.3  | 524.1  |
| 70°    | 292.8  | 346.9  | 418.3  | 465.0  | 482.2  |
| 72.5°  | 246.0  | 302.6  | 371.5  | 423.2  | 440.4  |
| 75°    | 201.7  | 255.9  | 329.7  | 381.4  | 398.6  |
| 77.5°  | 155.0  | 214.1  | 287.9  | 339.5  | 359.2  |
| 80°    | 113.2  | 174.7  | 248.5  | 300.2  | 319.8  |
| 82.5°  | 76.3   | 137.8  | 211.6  | 263.3  | 282.9  |
| 85°    | 44.3   | 105.8  | 179.6  | 228.8  | 246.0  |
| 87.5°  | 22.1   | 81.2   | 150.1  | 199.3  | 216.5  |
| 90°    | 0.0    | 59.0   | 125.5  | 172.2  | 189.4  |
| 92.5°  | 0.0    | 56.6   | 123.0  | 167.3  | 184.5  |
| 95°    | 0.0    | 56.6   | 120.6  | 164.8  | 182.1  |
| 97.5°  | 0.0    | 54.1   | 118.1  | 164.8  | 179.6  |
| 100°   | 0.0    | 51.7   | 118.1  | 162.4  | 177.1  |
| 102.5° | 0.0    | 49.2   | 115.6  | 159.9  | 174.7  |
| 105°   | 0.0    | 46.7   | 113.2  | 155.0  | 169.8  |
| 107.5° | 2.5    | 46.7   | 108.3  | 152.5  | 167.3  |
| 110°   | 2.5    | 44.3   | 103.3  | 150.1  | 164.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°   |
|--------|-----|-------|------|-------|-------|
| 112.5° | 2.5 | 41.8  | 98.4 | 145.2 | 159.9 |
| 115°   | 2.5 | 41.8  | 96.0 | 137.8 | 155.0 |
| 117.5° | 2.5 | 39.4  | 91.0 | 132.9 | 150.1 |
| 120°   | 2.5 | 39.4  | 88.6 | 127.9 | 142.7 |
| 122.5° | 2.5 | 36.9  | 83.7 | 123.0 | 137.8 |
| 125°   | 2.5 | 34.4  | 81.2 | 118.1 | 132.9 |
| 127.5° | 2.5 | 32.0  | 78.7 | 113.2 | 127.9 |
| 130°   | 2.5 | 29.5  | 73.8 | 108.3 | 120.6 |
| 132.5° | 2.5 | 29.5  | 71.4 | 100.9 | 115.6 |
| 135°   | 2.5 | 27.1  | 66.4 | 96.0  | 108.3 |
| 137.5° | 2.5 | 24.6  | 61.5 | 91.0  | 103.3 |
| 140°   | 2.5 | 22.1  | 56.6 | 86.1  | 96.0  |
| 142.5° | 2.5 | 22.1  | 51.7 | 78.7  | 88.6  |
| 145°   | 2.5 | 19.7  | 46.7 | 73.8  | 81.2  |
| 147.5° | 2.5 | 17.2  | 41.8 | 66.4  | 73.8  |
| 150°   | 2.5 | 17.2  | 36.9 | 59.0  | 66.4  |
| 152.5° | 2.5 | 14.8  | 32.0 | 54.1  | 61.5  |
| 155°   | 2.5 | 12.3  | 29.5 | 46.7  | 54.1  |
| 157.5° | 2.5 | 12.3  | 24.6 | 39.4  | 46.7  |
| 160°   | 2.5 | 9.8   | 22.1 | 32.0  | 39.4  |
| 162.5° | 2.5 | 9.8   | 19.7 | 27.1  | 34.4  |
| 165°   | 2.5 | 7.4   | 14.8 | 22.1  | 27.1  |
| 167.5° | 2.5 | 7.4   | 12.3 | 17.2  | 22.1  |
| 170°   | 2.5 | 4.9   | 9.8  | 12.3  | 17.2  |
| 172.5° | 2.5 | 4.9   | 7.4  | 7.4   | 7.4   |
| 175°   | 2.5 | 2.5   | 4.9  | 4.9   | 2.5   |
| 177.5° | 2.5 | 2.5   | 2.5  | 2.5   | 2.5   |
| 180°   | 2.5 | 2.5   | 2.5  | 2.5   | 2.5   |

(END OF REPORT)