

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: P565803

Luminaire Tested: **2SNX-47HL-LN-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

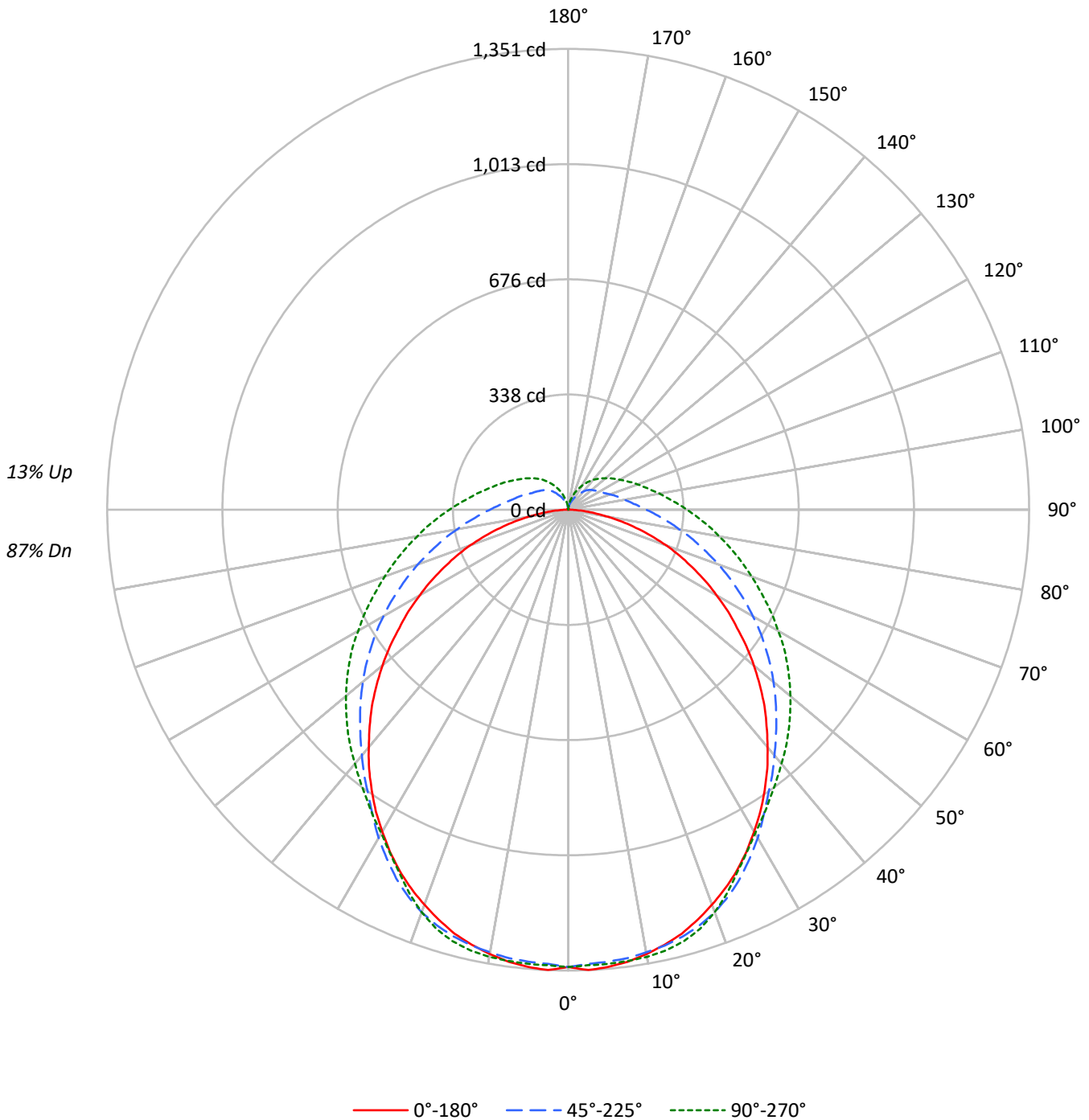
Test Method: LM-79-08  
Report Number: P565803  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNX-47HL-LN-UNV-L835-CD  
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4840.0 lumens  
Efficiency: N/A  
Efficacy: 143.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 33.7  
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 | 104 | 104 | 104 | 96 | 96 | 96 | 90 | 90 | 90 | 87 |
| 1   | 104 | 98  | 93  | 89  | 100 | 95  | 90  | 86  | 88  | 84  | 81  | 82 | 79 | 76 | 76 | 74 | 72 | 68 |
| 2   | 94  | 85  | 77  | 71  | 90  | 82  | 75  | 69  | 76  | 70  | 66  | 71 | 66 | 62 | 66 | 62 | 59 | 56 |
| 3   | 85  | 74  | 65  | 58  | 81  | 71  | 63  | 57  | 66  | 60  | 54  | 62 | 56 | 52 | 58 | 53 | 49 | 46 |
| 4   | 78  | 65  | 56  | 49  | 74  | 63  | 55  | 48  | 59  | 52  | 46  | 55 | 49 | 44 | 51 | 46 | 42 | 39 |
| 5   | 71  | 58  | 49  | 42  | 68  | 56  | 48  | 41  | 53  | 45  | 40  | 49 | 43 | 38 | 46 | 41 | 36 | 34 |
| 6   | 66  | 52  | 43  | 37  | 63  | 51  | 42  | 36  | 47  | 40  | 35  | 44 | 38 | 33 | 42 | 36 | 32 | 29 |
| 7   | 61  | 47  | 38  | 32  | 58  | 46  | 38  | 32  | 43  | 36  | 30  | 41 | 34 | 29 | 38 | 33 | 28 | 26 |
| 8   | 57  | 43  | 35  | 29  | 54  | 42  | 34  | 28  | 39  | 32  | 27  | 37 | 31 | 26 | 35 | 29 | 25 | 23 |
| 9   | 53  | 39  | 31  | 26  | 51  | 38  | 31  | 25  | 36  | 29  | 24  | 34 | 28 | 24 | 32 | 27 | 23 | 21 |
| 10  | 50  | 36  | 28  | 23  | 48  | 35  | 28  | 23  | 34  | 27  | 22  | 32 | 26 | 21 | 30 | 25 | 21 | 19 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 28865 | 28865 | 28865 |
| 5°  | 28870 | 27469 | 27294 |
| 10° | 28495 | 26344 | 26033 |
| 15° | 28048 | 25283 | 24764 |
| 20° | 27405 | 24107 | 23144 |
| 25° | 26718 | 22706 | 21248 |
| 30° | 25845 | 21143 | 19662 |
| 35° | 24919 | 19563 | 18479 |
| 40° | 23881 | 18287 | 17522 |
| 45° | 22853 | 17157 | 16698 |
| 50° | 21649 | 16115 | 15866 |
| 55° | 20255 | 15072 | 15051 |
| 60° | 18895 | 14033 | 14199 |
| 65° | 17377 | 12984 | 13418 |
| 70° | 15631 | 12001 | 12712 |
| 75° | 13070 | 11042 | 12131 |
| 80° | 9808  | 10205 | 11638 |
| 85° | 5920  | 9587  | 11356 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.4  | 2.6       |
| 10°-20°   | 366.2  | 7.6       |
| 20°-30°   | 545.3  | 11.3      |
| 30°-40°   | 643.4  | 13.3      |
| 40°-50°   | 671.0  | 13.9      |
| 50°-60°   | 630.6  | 13.0      |
| 60°-70°   | 532.5  | 11.0      |
| 70°-80°   | 402.4  | 8.3       |
| 80°-90°   | 277.4  | 5.7       |
| 90°-100°  | 194.1  | 4.0       |
| 100°-110° | 144.8  | 3.0       |
| 110°-120° | 109.2  | 2.3       |
| 120°-130° | 81.4   | 1.7       |
| 130°-140° | 57.2   | 1.2       |
| 140°-150° | 34.6   | 0.7       |
| 150°-160° | 16.5   | 0.3       |
| 160°-170° | 5.3    | 0.1       |
| 170°-180° | 0.6    | 0.0       |
| 0°-30°    | 1038.9 | 21.5      |
| 0°-40°    | 1682.3 | 34.8      |
| 0°-60°    | 2984.0 | 61.7      |
| 0°-90°    | 4196.3 | 86.7      |
| 90°-120°  | 448.1  | 9.3       |
| 90°-150°  | 621.3  | 12.8      |
| 90°-180°  | 644.0  | 13.3      |
| 0°-180°   | 4840.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1341 | 1341  | 1341 | 1341  | 1341 |      |
| 5°   | 1346 | 1343  | 1330 | 1340  | 1337 | 128  |
| 15°  | 1287 | 1292  | 1296 | 1312  | 1310 | 362  |
| 25°  | 1168 | 1192  | 1192 | 1182  | 1173 | 538  |
| 35°  | 1004 | 1040  | 1021 | 1029  | 1031 | 628  |
| 45°  | 813  | 853   | 862  | 898   | 914  | 626  |
| 55°  | 604  | 656   | 706  | 762   | 783  | 542  |
| 65°  | 402  | 466   | 545  | 616   | 640  | 399  |
| 75°  | 206  | 286   | 396  | 478   | 509  | 219  |
| 85°  | 47   | 147   | 274  | 364   | 396  | 52   |
| 90°  | 1    | 104   | 229  | 317   | 348  | 3    |
| 95°  | 1    | 81    | 194  | 277   | 306  | 1    |
| 105° | 2    | 58    | 149  | 217   | 241  | 2    |
| 115° | 2    | 50    | 116  | 172   | 194  | 2    |
| 125° | 2    | 43    | 98   | 141   | 159  | 2    |
| 135° | 2    | 33    | 81   | 115   | 129  | 2    |
| 145° | 3    | 24    | 57   | 88    | 98   | 2    |
| 155° | 3    | 16    | 34   | 56    | 65   | 2    |
| 165° | 4    | 10    | 18   | 25    | 33   | 1    |
| 175° | 4    | 4     | 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°     | 1340.8 | 1340.8 | 1340.8 | 1340.8 | 1340.8 |
| 2.5°   | 1350.6 | 1347.3 | 1332.6 | 1340.8 | 1336.7 |
| 5°     | 1345.7 | 1343.2 | 1330.1 | 1339.9 | 1336.7 |
| 7.5°   | 1336.7 | 1335.8 | 1326.0 | 1337.5 | 1334.2 |
| 10°    | 1322.7 | 1325.2 | 1317.8 | 1333.4 | 1330.9 |
| 12.5°  | 1306.3 | 1311.2 | 1308.8 | 1326.0 | 1323.5 |
| 15°    | 1286.6 | 1292.4 | 1295.6 | 1312.1 | 1309.6 |
| 17.5°  | 1260.4 | 1271.0 | 1278.4 | 1291.5 | 1287.4 |
| 20°    | 1232.5 | 1247.2 | 1255.4 | 1262.0 | 1255.4 |
| 22.5°  | 1202.1 | 1221.8 | 1226.7 | 1223.4 | 1216.9 |
| 25°    | 1168.5 | 1192.3 | 1192.3 | 1181.6 | 1172.6 |
| 27.5°  | 1130.7 | 1160.3 | 1152.0 | 1139.7 | 1132.4 |
| 30°    | 1089.7 | 1125.0 | 1111.0 | 1097.1 | 1095.4 |
| 32.5°  | 1048.7 | 1085.6 | 1065.1 | 1061.8 | 1064.2 |
| 35°    | 1003.5 | 1040.5 | 1020.8 | 1029.0 | 1031.4 |
| 37.5°  | 958.4  | 995.3  | 982.2  | 994.5  | 1001.9 |
| 40°    | 909.2  | 948.5  | 940.3  | 962.5  | 972.3  |
| 42.5°  | 860.8  | 901.8  | 901.0  | 929.7  | 944.4  |
| 45°    | 813.2  | 853.4  | 862.4  | 897.7  | 914.1  |
| 47.5°  | 761.5  | 802.5  | 824.6  | 865.7  | 882.1  |
| 50°    | 710.6  | 754.9  | 785.3  | 831.2  | 850.1  |
| 52.5°  | 658.1  | 704.8  | 746.7  | 797.6  | 817.3  |
| 55°    | 603.9  | 655.6  | 705.7  | 762.3  | 782.8  |
| 57.5°  | 555.5  | 608.0  | 667.1  | 725.4  | 749.2  |
| 60°    | 502.2  | 560.4  | 625.3  | 686.8  | 710.6  |
| 62.5°  | 453.8  | 513.7  | 585.9  | 650.7  | 676.1  |
| 65°    | 402.1  | 466.1  | 544.8  | 616.2  | 640.0  |
| 67.5°  | 354.5  | 420.1  | 506.3  | 578.5  | 604.7  |
| 70°    | 305.2  | 375.0  | 468.5  | 544.8  | 571.9  |
| 72.5°  | 254.4  | 328.2  | 430.8  | 512.0  | 539.9  |
| 75°    | 206.0  | 285.5  | 395.5  | 478.4  | 508.7  |
| 77.5°  | 160.8  | 244.5  | 363.5  | 448.8  | 478.4  |
| 80°    | 116.5  | 207.6  | 329.9  | 418.5  | 448.8  |
| 82.5°  | 77.1   | 175.6  | 302.8  | 391.4  | 423.4  |
| 85°    | 46.8   | 146.9  | 274.1  | 364.3  | 396.3  |
| 87.5°  | 21.3   | 123.1  | 251.1  | 340.5  | 371.7  |
| 90°    | 0.8    | 104.2  | 228.9  | 316.7  | 347.9  |
| 92.5°  | 0.8    | 91.1   | 210.9  | 296.2  | 326.6  |
| 95°    | 0.8    | 81.2   | 193.6  | 277.3  | 306.1  |
| 97.5°  | 0.8    | 74.7   | 180.5  | 259.3  | 287.2  |
| 100°   | 0.8    | 68.1   | 167.4  | 242.9  | 271.6  |
| 102.5° | 1.6    | 62.4   | 157.5  | 228.1  | 255.2  |
| 105°   | 1.6    | 58.3   | 149.3  | 216.6  | 241.2  |
| 107.5° | 1.6    | 55.8   | 140.3  | 205.1  | 228.1  |
| 110°   | 1.6    | 53.3   | 130.5  | 193.6  | 216.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 1.6 | 51.7  | 123.1 | 183.8 | 206.0 |
| 115°   | 1.6 | 50.1  | 115.7 | 172.3 | 194.5 |
| 117.5° | 1.6 | 49.2  | 111.6 | 163.3 | 184.6 |
| 120°   | 2.5 | 46.8  | 106.7 | 155.1 | 175.6 |
| 122.5° | 2.5 | 44.3  | 101.7 | 148.5 | 166.6 |
| 125°   | 2.5 | 42.7  | 97.6  | 141.1 | 159.2 |
| 127.5° | 2.5 | 40.2  | 93.5  | 134.6 | 151.0 |
| 130°   | 2.5 | 37.7  | 90.3  | 128.0 | 143.6 |
| 132.5° | 2.5 | 35.3  | 86.2  | 121.4 | 136.2 |
| 135°   | 2.5 | 32.8  | 81.2  | 114.9 | 128.8 |
| 137.5° | 2.5 | 30.4  | 76.3  | 108.3 | 121.4 |
| 140°   | 2.5 | 27.9  | 69.7  | 101.7 | 114.1 |
| 142.5° | 2.5 | 25.4  | 63.2  | 95.2  | 105.9 |
| 145°   | 3.3 | 23.8  | 56.6  | 87.8  | 98.5  |
| 147.5° | 3.3 | 21.3  | 50.1  | 80.4  | 89.4  |
| 150°   | 3.3 | 19.7  | 45.1  | 73.0  | 81.2  |
| 152.5° | 3.3 | 17.2  | 40.2  | 64.8  | 73.0  |
| 155°   | 3.3 | 15.6  | 34.5  | 55.8  | 64.8  |
| 157.5° | 3.3 | 13.9  | 29.5  | 46.8  | 56.6  |
| 160°   | 3.3 | 13.1  | 25.4  | 38.6  | 48.4  |
| 162.5° | 4.1 | 11.5  | 21.3  | 31.2  | 40.2  |
| 165°   | 4.1 | 9.8   | 18.1  | 24.6  | 32.8  |
| 167.5° | 4.1 | 8.2   | 14.8  | 18.9  | 25.4  |
| 170°   | 4.1 | 6.6   | 11.5  | 13.1  | 19.7  |
| 172.5° | 4.1 | 4.9   | 8.2   | 9.0   | 9.8   |
| 175°   | 4.1 | 4.1   | 4.9   | 4.9   | 2.5   |
| 177.5° | 4.1 | 4.1   | 3.3   | 2.5   | 0.8   |
| 180°   | 2.5 | 2.5   | 2.5   | 2.5   | 2.5   |

(END OF REPORT)