

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: P567781

Luminaire Tested: **8SNX-44SL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567781  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-44SL-FDL-UNV-L850-CD  
Description: 8FT 4400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

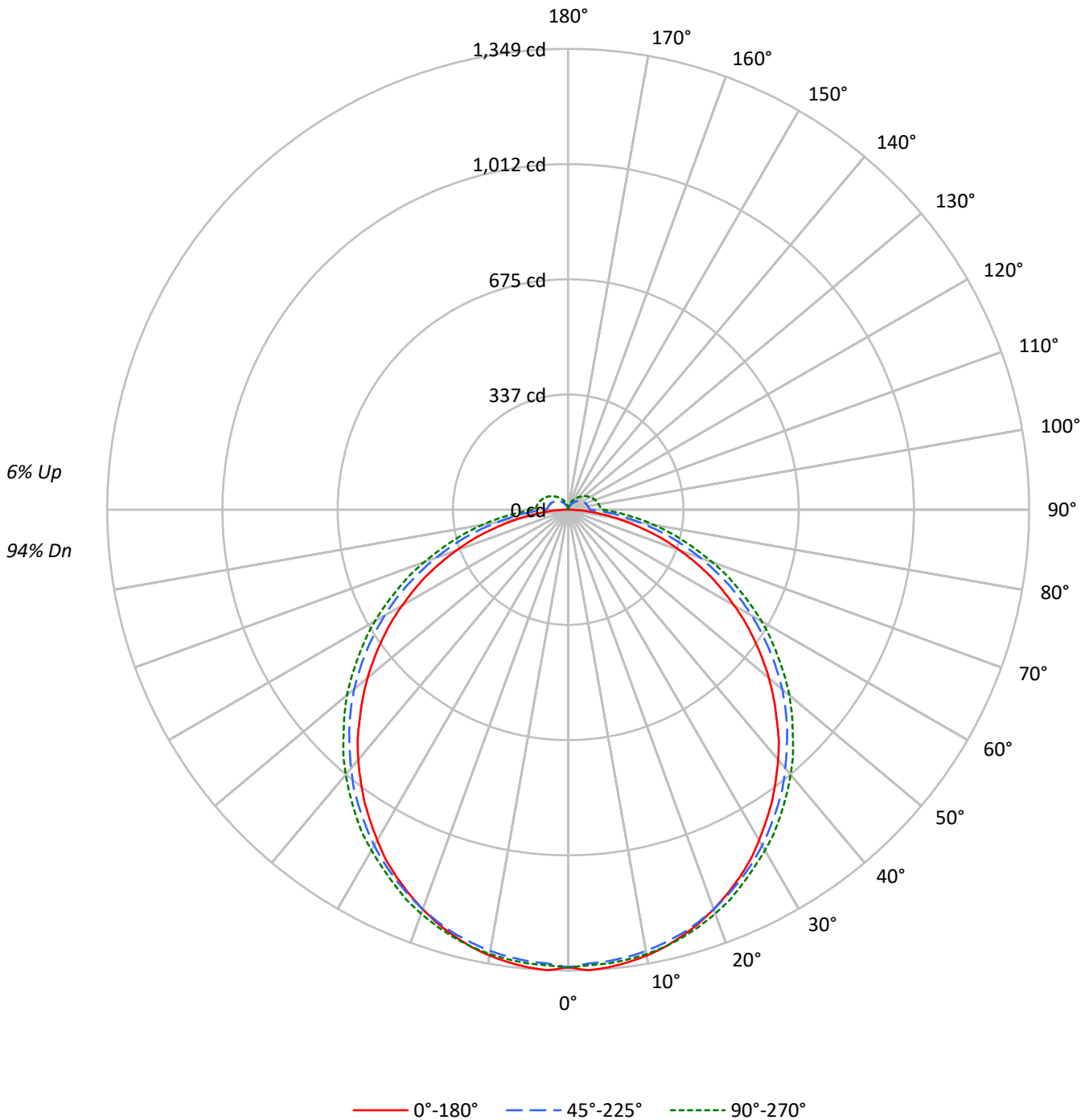
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4257.0 lumens  
Efficiency: N/A  
Efficacy: 154.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')  
CIE Type: Direct

Input Watts (W): 27.6  
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





TEST NUMBER: P567781

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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   | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 94 |
| 1   | 107 | 102 | 97  | 93  | 103 | 99  | 95  | 91  | 93  | 90  | 87  | 88  | 86  | 83  | 84 | 82 | 80 | 77 |
| 2   | 97  | 88  | 81  | 75  | 93  | 86  | 79  | 74  | 81  | 76  | 71  | 77  | 73  | 69  | 73 | 69 | 66 | 64 |
| 3   | 88  | 77  | 69  | 62  | 85  | 75  | 67  | 61  | 71  | 65  | 59  | 68  | 62  | 57  | 64 | 60 | 56 | 53 |
| 4   | 80  | 68  | 59  | 52  | 78  | 66  | 58  | 52  | 63  | 56  | 50  | 60  | 54  | 49  | 57 | 52 | 48 | 45 |
| 5   | 74  | 61  | 52  | 45  | 71  | 59  | 51  | 44  | 56  | 49  | 43  | 54  | 47  | 42  | 51 | 46 | 41 | 39 |
| 6   | 68  | 55  | 46  | 39  | 66  | 53  | 45  | 39  | 51  | 43  | 38  | 49  | 42  | 37  | 47 | 41 | 36 | 34 |
| 7   | 63  | 49  | 41  | 34  | 61  | 48  | 40  | 34  | 46  | 39  | 33  | 44  | 38  | 33  | 43 | 37 | 32 | 30 |
| 8   | 59  | 45  | 36  | 31  | 57  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 34  | 29  | 39 | 33 | 29 | 27 |
| 9   | 55  | 41  | 33  | 27  | 53  | 40  | 33  | 27  | 39  | 32  | 27  | 37  | 31  | 26  | 36 | 30 | 26 | 24 |
| 10  | 51  | 38  | 30  | 25  | 50  | 37  | 30  | 25  | 36  | 29  | 24  | 35  | 28  | 24  | 33 | 28 | 24 | 22 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7210 | 7210 | 7210 |
| 5°  | 7263 | 7093 | 7101 |
| 10° | 7236 | 7018 | 7012 |
| 15° | 7185 | 6932 | 6912 |
| 20° | 7115 | 6826 | 6794 |
| 25° | 7034 | 6711 | 6655 |
| 30° | 6922 | 6593 | 6526 |
| 35° | 6810 | 6454 | 6391 |
| 40° | 6687 | 6301 | 6240 |
| 45° | 6530 | 6149 | 6064 |
| 50° | 6380 | 5977 | 5903 |
| 55° | 6193 | 5762 | 5679 |
| 60° | 5984 | 5517 | 5459 |
| 65° | 5763 | 5224 | 5156 |
| 70° | 5380 | 4856 | 4841 |
| 75° | 4920 | 4422 | 4465 |
| 80° | 4245 | 3846 | 4047 |
| 85° | 3427 | 3352 | 3558 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.0  | 3.0       |
| 10°-20°   | 364.6  | 8.6       |
| 20°-30°   | 552.5  | 13.0      |
| 30°-40°   | 666.9  | 15.7      |
| 40°-50°   | 696.4  | 16.4      |
| 50°-60°   | 639.8  | 15.0      |
| 60°-70°   | 506.0  | 11.9      |
| 70°-80°   | 320.2  | 7.5       |
| 80°-90°   | 137.6  | 3.2       |
| 90°-100°  | 60.6   | 1.4       |
| 100°-110° | 54.2   | 1.3       |
| 110°-120° | 45.8   | 1.1       |
| 120°-130° | 35.7   | 0.8       |
| 130°-140° | 24.7   | 0.6       |
| 140°-150° | 14.8   | 0.3       |
| 150°-160° | 7.2    | 0.2       |
| 160°-170° | 2.5    | 0.1       |
| 170°-180° | 0.4    | 0.0       |
| 0°-30°    | 1044.1 | 24.5      |
| 0°-40°    | 1711.0 | 40.2      |
| 0°-60°    | 3047.2 | 71.6      |
| 0°-90°    | 4011.0 | 94.2      |
| 90°-120°  | 160.6  | 3.8       |
| 90°-150°  | 235.9  | 5.5       |
| 90°-180°  | 246.0  | 5.8       |
| 0°-180°   | 4257.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1340 | 1340  | 1340 | 1340  | 1340 |      |
| 5°   | 1345 | 1341  | 1327 | 1338  | 1334 | 128  |
| 15°  | 1291 | 1291  | 1285 | 1298  | 1296 | 364  |
| 25°  | 1187 | 1193  | 1194 | 1210  | 1208 | 547  |
| 35°  | 1040 | 1052  | 1066 | 1082  | 1086 | 650  |
| 45°  | 862  | 884   | 906  | 924   | 930  | 666  |
| 55°  | 665  | 692   | 721  | 744   | 749  | 595  |
| 65°  | 458  | 483   | 517  | 541   | 550  | 451  |
| 75°  | 241  | 270   | 309  | 336   | 348  | 256  |
| 85°  | 59   | 90    | 130  | 158   | 167  | 65   |
| 90°  | 4    | 32    | 66   | 93    | 102  | 5    |
| 95°  | 1    | 28    | 60   | 84    | 94   | 1    |
| 105° | 1    | 26    | 56   | 79    | 87   | 1    |
| 115° | 1    | 22    | 51   | 72    | 79   | 1    |
| 125° | 2    | 20    | 43   | 62    | 69   | 1    |
| 135° | 2    | 15    | 35   | 49    | 55   | 1    |
| 145° | 2    | 11    | 24   | 37    | 41   | 1    |
| 155° | 2    | 8     | 16   | 23    | 28   | 1    |
| 165° | 2    | 5     | 8    | 11    | 16   | 1    |
| 175° | 2    | 3     | 4    | 4     | 2    | 0    |
| 180° | 2    | 2     | 2    | 2     | 2    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1339.6 | 1339.6 | 1339.6 | 1339.6 | 1339.6 |
| 2.5°   | 1349.4 | 1344.9 | 1329.8 | 1340.4 | 1335.1 |
| 5°     | 1344.9 | 1341.1 | 1326.8 | 1338.1 | 1333.6 |
| 7.5°   | 1336.6 | 1333.6 | 1320.8 | 1332.8 | 1328.3 |
| 10°    | 1325.3 | 1323.0 | 1311.7 | 1323.8 | 1320.8 |
| 12.5°  | 1311.0 | 1310.2 | 1298.9 | 1312.5 | 1310.2 |
| 15°    | 1291.4 | 1291.4 | 1284.6 | 1298.1 | 1295.9 |
| 17.5°  | 1270.2 | 1271.0 | 1265.7 | 1280.0 | 1278.5 |
| 20°    | 1244.6 | 1248.4 | 1244.6 | 1259.7 | 1258.2 |
| 22.5°  | 1216.7 | 1222.0 | 1220.5 | 1235.6 | 1236.3 |
| 25°    | 1187.3 | 1192.6 | 1194.1 | 1209.9 | 1207.7 |
| 27.5°  | 1154.9 | 1163.2 | 1166.2 | 1180.5 | 1179.8 |
| 30°    | 1117.2 | 1128.5 | 1135.3 | 1147.4 | 1151.1 |
| 32.5°  | 1078.8 | 1092.3 | 1100.6 | 1117.2 | 1121.7 |
| 35°    | 1040.3 | 1052.4 | 1065.9 | 1082.5 | 1086.3 |
| 37.5°  | 998.1  | 1011.7 | 1029.8 | 1045.6 | 1050.1 |
| 40°    | 955.9  | 971.0  | 988.3  | 1005.6 | 1012.4 |
| 42.5°  | 912.2  | 928.0  | 946.8  | 967.2  | 974.0  |
| 45°    | 862.4  | 883.5  | 906.1  | 923.5  | 929.5  |
| 47.5°  | 814.9  | 838.3  | 862.4  | 881.3  | 888.0  |
| 50°    | 766.7  | 791.5  | 817.2  | 834.5  | 845.1  |
| 52.5°  | 716.2  | 743.3  | 768.9  | 790.8  | 797.6  |
| 55°    | 664.9  | 692.0  | 720.7  | 744.1  | 749.3  |
| 57.5°  | 615.1  | 641.5  | 670.2  | 692.0  | 702.6  |
| 60°    | 560.9  | 589.5  | 620.4  | 642.3  | 653.6  |
| 62.5°  | 508.1  | 536.0  | 569.2  | 592.5  | 601.6  |
| 65°    | 457.6  | 483.2  | 517.1  | 541.3  | 549.6  |
| 67.5°  | 401.8  | 431.2  | 463.6  | 491.5  | 502.1  |
| 70°    | 346.8  | 374.7  | 411.6  | 438.0  | 448.5  |
| 72.5°  | 295.5  | 322.6  | 359.6  | 386.0  | 395.8  |
| 75°    | 241.2  | 269.9  | 309.1  | 335.5  | 348.3  |
| 77.5°  | 189.2  | 220.9  | 258.6  | 287.2  | 301.5  |
| 80°    | 141.0  | 168.9  | 209.6  | 241.2  | 254.0  |
| 82.5°  | 95.7   | 125.9  | 168.1  | 197.5  | 211.8  |
| 85°    | 58.8   | 90.5   | 129.7  | 157.6  | 167.4  |
| 87.5°  | 27.9   | 58.0   | 94.2   | 121.4  | 133.4  |
| 90°    | 3.8    | 32.4   | 66.3   | 92.7   | 102.5  |
| 92.5°  | 0.8    | 27.9   | 61.1   | 85.9   | 95.0   |
| 95°    | 0.8    | 27.9   | 60.3   | 84.4   | 93.5   |
| 97.5°  | 0.8    | 27.1   | 59.6   | 83.7   | 92.0   |
| 100°   | 0.8    | 26.4   | 58.8   | 82.2   | 91.2   |
| 102.5° | 0.8    | 26.4   | 57.3   | 80.7   | 89.0   |
| 105°   | 0.8    | 25.6   | 56.5   | 79.2   | 87.4   |
| 107.5° | 0.8    | 24.9   | 55.0   | 77.6   | 85.9   |
| 110°   | 0.8    | 23.4   | 54.3   | 75.4   | 83.7   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.8 | 22.6  | 52.8 | 73.9  | 81.4 |
| 115°   | 0.8 | 21.9  | 51.3 | 71.6  | 79.2 |
| 117.5° | 0.8 | 21.1  | 49.0 | 69.4  | 76.9 |
| 120°   | 1.5 | 21.1  | 47.5 | 67.1  | 73.9 |
| 122.5° | 1.5 | 20.4  | 45.2 | 64.1  | 70.9 |
| 125°   | 1.5 | 19.6  | 43.0 | 61.8  | 68.6 |
| 127.5° | 1.5 | 18.8  | 40.7 | 58.8  | 64.8 |
| 130°   | 1.5 | 17.3  | 39.2 | 55.8  | 61.8 |
| 132.5° | 1.5 | 16.6  | 36.9 | 52.0  | 58.0 |
| 135°   | 1.5 | 15.1  | 34.7 | 49.0  | 55.0 |
| 137.5° | 1.5 | 14.3  | 32.4 | 46.0  | 51.3 |
| 140°   | 1.5 | 13.6  | 29.4 | 43.0  | 48.2 |
| 142.5° | 1.5 | 12.1  | 27.1 | 40.0  | 44.5 |
| 145°   | 1.5 | 11.3  | 24.1 | 36.9  | 40.7 |
| 147.5° | 1.5 | 9.8   | 21.9 | 33.9  | 37.7 |
| 150°   | 1.5 | 9.0   | 19.6 | 30.9  | 34.7 |
| 152.5° | 1.5 | 8.3   | 17.3 | 27.1  | 30.9 |
| 155°   | 1.5 | 7.5   | 15.8 | 23.4  | 27.9 |
| 157.5° | 1.5 | 6.8   | 13.6 | 20.4  | 24.9 |
| 160°   | 2.3 | 6.0   | 12.1 | 17.3  | 21.1 |
| 162.5° | 2.3 | 5.3   | 9.8  | 14.3  | 18.8 |
| 165°   | 2.3 | 5.3   | 8.3  | 11.3  | 15.8 |
| 167.5° | 2.3 | 4.5   | 6.8  | 9.0   | 12.8 |
| 170°   | 2.3 | 3.8   | 6.0  | 6.8   | 9.8  |
| 172.5° | 2.3 | 3.0   | 4.5  | 4.5   | 5.3  |
| 175°   | 2.3 | 3.0   | 3.8  | 3.8   | 2.3  |
| 177.5° | 2.3 | 2.3   | 2.3  | 2.3   | 1.5  |
| 180°   | 2.3 | 2.3   | 2.3  | 2.3   | 2.3  |

(END OF REPORT)