

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: P217934

Luminaire Tested: **2SNLED-LD5-37HL-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P217934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35691)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNLED-LD5-37HL-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 2FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4138.0 lumens  
Efficiency: N/A  
Efficacy: 159.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 2' x H: 0.17')  
CIE Type: Direct

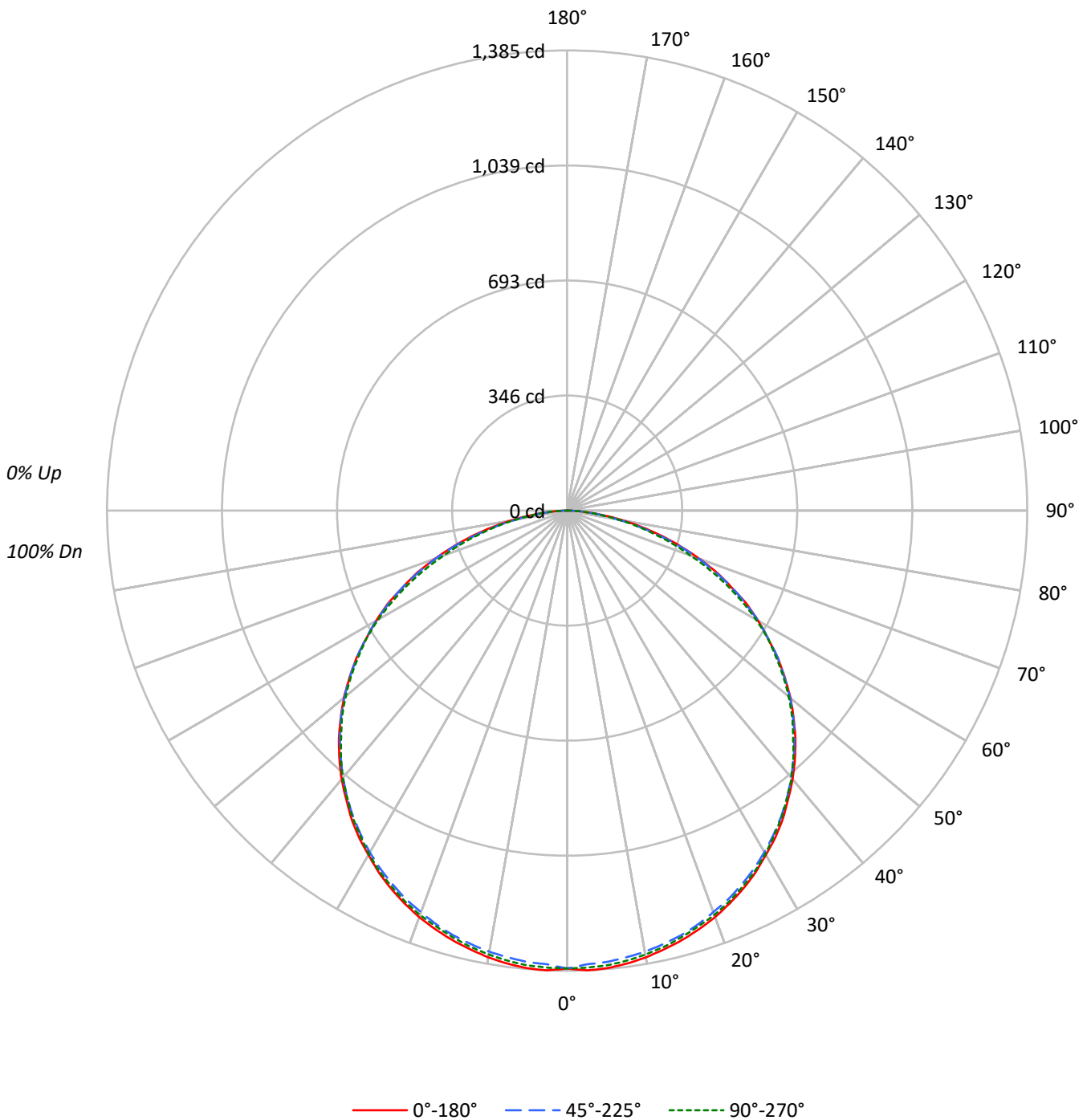
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 50  | 30 | 10 | 50 | 30 | 10  | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 109 | 104 | 99  | 95  | 106 | 101 | 97  | 94  | 97  | 94  | 91  | 93  | 91  | 88  | 90  | 87  | 85  | 83  |    |    |    |    | 83  |   |  |   |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 82  | 76  | 85  | 79  | 75  | 81  | 77  | 73  | 78  | 75  | 71  | 69  |    |    |    |    | 69  |   |  |   |
| 3   | 90  | 79  | 70  | 64  | 87  | 77  | 70  | 63  | 74  | 68  | 62  | 71  | 66  | 61  | 69  | 64  | 60  | 58  |    |    |    |    | 58  |   |  |   |
| 4   | 82  | 70  | 61  | 54  | 80  | 68  | 60  | 53  | 66  | 58  | 53  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |    |    |    |    | 49  |   |  |   |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |    |    |    |    | 42  |   |  |   |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  | 51  | 44  | 39  | 50  | 44  | 39  | 37  |    |    |    |    | 37  |   |  |   |
| 7   | 64  | 50  | 42  | 35  | 62  | 50  | 41  | 35  | 48  | 40  | 35  | 47  | 40  | 35  | 45  | 39  | 34  | 32  |    |    |    |    | 32  |   |  |   |
| 8   | 60  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 29  |    |    |    |    | 29  |   |  |   |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |    |    | 26  |   |  |   |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 25  | 37  | 30  | 25  | 36  | 30  | 25  | 36  | 29  | 25  | 23  |    |    |    |    | 23  |   |  |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 44412 | 44412 | 44412 |
| 5°  | 44397 | 41348 | 40868 |
| 10° | 44027 | 38865 | 37742 |
| 15° | 43668 | 36642 | 34984 |
| 20° | 43346 | 34501 | 32564 |
| 25° | 42957 | 32544 | 30296 |
| 30° | 42474 | 30646 | 28157 |
| 35° | 42075 | 28765 | 26062 |
| 40° | 41521 | 26862 | 24028 |
| 45° | 40874 | 24964 | 21915 |
| 50° | 40004 | 22953 | 19904 |
| 55° | 38865 | 20772 | 17750 |
| 60° | 37390 | 18392 | 15498 |
| 65° | 35261 | 15773 | 12841 |
| 70° | 32359 | 12724 | 9932  |
| 75° | 28119 | 9144  | 7118  |
| 80° | 21449 | 5417  | 4418  |
| 85° | 11919 | 2331  | 1788  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 130.6  | 3.2       |
| 10°-20°   | 376.0  | 9.1       |
| 20°-30°   | 576.1  | 13.9      |
| 30°-40°   | 705.1  | 17.0      |
| 40°-50°   | 746.1  | 18.0      |
| 50°-60°   | 690.1  | 16.7      |
| 60°-70°   | 535.9  | 12.9      |
| 70°-80°   | 301.8  | 7.3       |
| 80°-90°   | 76.3   | 1.8       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1082.6 | 26.2      |
| 0°-40°    | 1787.7 | 43.2      |
| 0°-60°    | 3224.0 | 77.9      |
| 0°-90°    | 4138.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4138.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1378 | 1378  | 1378 | 1378  | 1378 |      |
| 5°  | 1382 | 1377  | 1364 | 1377  | 1374 | 131  |
| 15° | 1338 | 1334  | 1324 | 1335  | 1330 | 378  |
| 25° | 1255 | 1251  | 1242 | 1252  | 1249 | 579  |
| 35° | 1132 | 1128  | 1123 | 1126  | 1126 | 708  |
| 45° | 972  | 970   | 967  | 966   | 962  | 749  |
| 55° | 774  | 777   | 774  | 771   | 767  | 691  |
| 65° | 545  | 550   | 547  | 540   | 530  | 541  |
| 75° | 296  | 296   | 283  | 276   | 270  | 312  |
| 85° | 63   | 63    | 62   | 62    | 60   | 78   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1378.1 | 1378.1 | 1378.1 | 1378.1 | 1378.1 |
| 2.5°  | 1385.3 | 1379.6 | 1366.7 | 1379.6 | 1376.7 |
| 5°    | 1382.4 | 1376.7 | 1363.8 | 1376.7 | 1373.8 |
| 7.5°  | 1375.3 | 1371.0 | 1356.7 | 1369.5 | 1366.7 |
| 10°   | 1365.2 | 1361.0 | 1348.1 | 1361.0 | 1356.7 |
| 12.5° | 1352.4 | 1348.1 | 1336.6 | 1348.1 | 1345.2 |
| 15°   | 1338.1 | 1333.8 | 1323.7 | 1335.2 | 1329.5 |
| 17.5° | 1320.9 | 1318.0 | 1306.6 | 1318.0 | 1312.3 |
| 20°   | 1302.3 | 1296.6 | 1286.5 | 1298.0 | 1295.1 |
| 22.5° | 1279.4 | 1276.5 | 1266.5 | 1276.5 | 1273.7 |
| 25°   | 1255.1 | 1250.8 | 1242.2 | 1252.2 | 1249.3 |
| 27.5° | 1227.9 | 1225.0 | 1216.4 | 1223.6 | 1223.6 |
| 30°   | 1196.4 | 1194.9 | 1187.8 | 1194.9 | 1193.5 |
| 32.5° | 1166.3 | 1163.5 | 1156.3 | 1162.0 | 1159.2 |
| 35°   | 1132.0 | 1127.7 | 1123.4 | 1126.3 | 1126.3 |
| 37.5° | 1093.3 | 1091.9 | 1087.6 | 1091.9 | 1087.6 |
| 40°   | 1056.1 | 1053.3 | 1049.0 | 1050.4 | 1050.4 |
| 42.5° | 1014.6 | 1013.2 | 1008.9 | 1008.9 | 1007.5 |
| 45°   | 971.7  | 970.3  | 967.4  | 966.0  | 961.7  |
| 47.5° | 924.5  | 923.0  | 923.0  | 921.6  | 918.8  |
| 50°   | 877.3  | 877.3  | 875.8  | 871.5  | 870.1  |
| 52.5° | 825.7  | 828.6  | 824.3  | 821.4  | 820.0  |
| 55°   | 774.2  | 777.1  | 774.2  | 771.4  | 767.1  |
| 57.5° | 717.0  | 722.7  | 718.4  | 717.0  | 715.5  |
| 60°   | 664.0  | 666.9  | 664.0  | 659.7  | 656.9  |
| 62.5° | 609.6  | 609.6  | 605.3  | 602.5  | 593.9  |
| 65°   | 545.2  | 549.5  | 546.7  | 539.5  | 529.5  |
| 67.5° | 488.0  | 485.1  | 482.3  | 473.7  | 462.2  |
| 70°   | 422.2  | 423.6  | 419.3  | 406.4  | 395.0  |
| 72.5° | 359.2  | 362.1  | 353.5  | 336.3  | 333.4  |
| 75°   | 296.2  | 296.2  | 283.4  | 276.2  | 270.5  |
| 77.5° | 231.8  | 233.3  | 216.1  | 214.7  | 213.2  |
| 80°   | 170.3  | 173.2  | 156.0  | 160.3  | 158.8  |
| 82.5° | 115.9  | 113.1  | 105.9  | 105.9  | 104.5  |
| 85°   | 63.0   | 63.0   | 61.5   | 61.5   | 60.1   |
| 87.5° | 24.3   | 25.8   | 28.6   | 31.5   | 30.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)