

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213700

Luminaire Tested: 2SNLED-LD5-37HL-UNV-L940-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1213700  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27410)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/29/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2SNLED-LD5-37HL-UNV-L940-CD1-U  
Description: 2FT LINEAR SNLED LED FIXTURE  
OPEN LED STIP  
Light Source: -  
Ballast/Driver: -

**Summary**

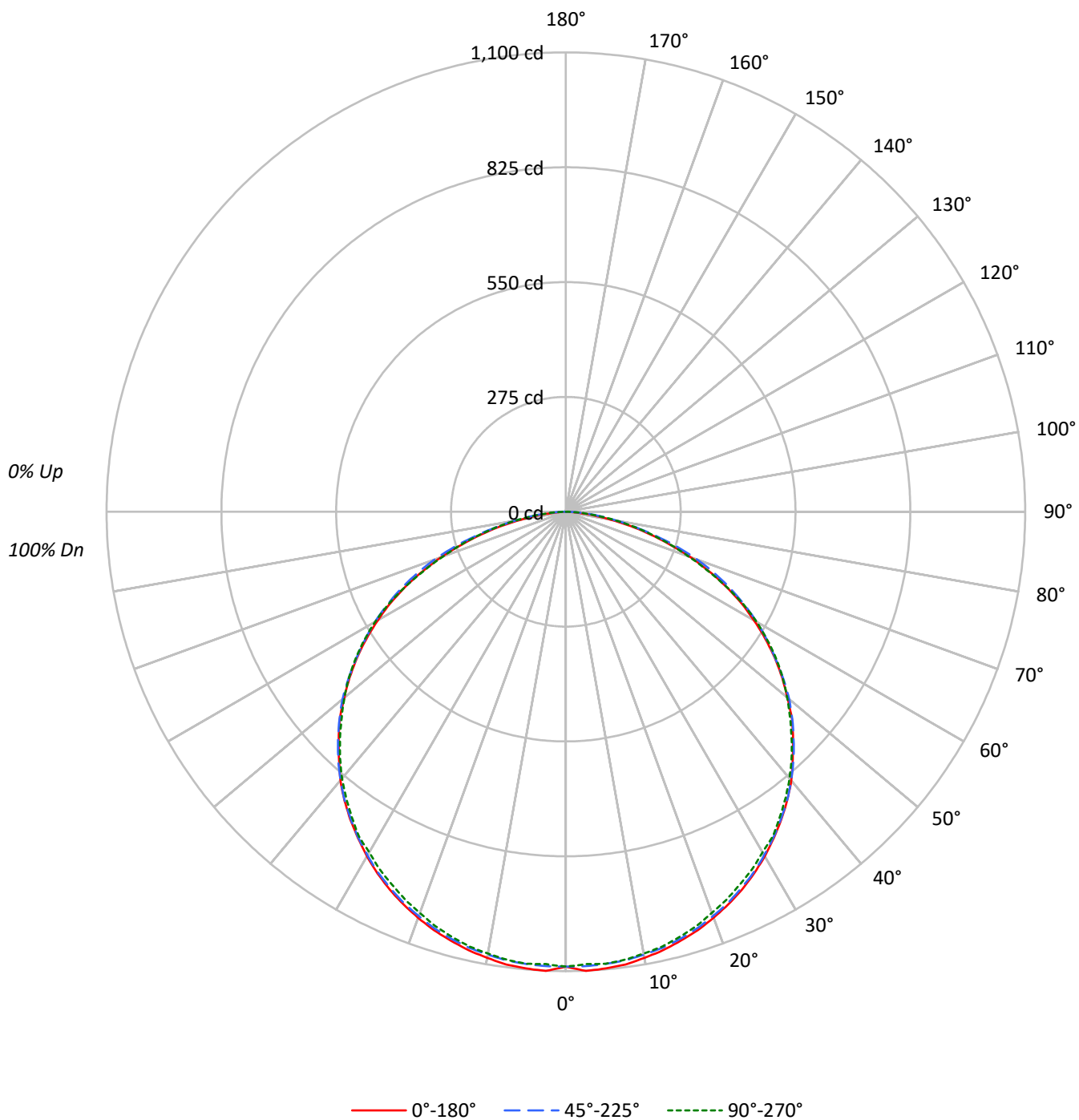
Lumens per Lamp: N/A  
Luminaire Lumens: 3267.0 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 27  
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: 24 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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 104 | 99  | 96  | 106 | 101 | 98  | 94  | 97  | 94  | 91  |  | 93  | 91  | 88  |  | 90  |
| 2   | 99  | 90  | 83  | 77  | 96  | 88  | 82  | 76  | 85  | 79  | 75  |  | 81  | 77  | 73  |  | 78  |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 63  | 74  | 68  | 62  |  | 72  | 66  | 61  |  | 69  |
| 4   | 82  | 70  | 61  | 54  | 80  | 68  | 60  | 54  | 66  | 59  | 53  |  | 64  | 57  | 52  |  | 61  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 46  |  | 57  | 50  | 45  |  | 55  |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  |  | 51  | 45  | 39  |  | 50  |
| 7   | 64  | 51  | 42  | 35  | 63  | 50  | 41  | 35  | 48  | 41  | 35  |  | 47  | 40  | 35  |  | 45  |
| 8   | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  |  | 43  | 36  | 31  |  | 42  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  |  | 36  | 30  | 25  |  | 36  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 17602 | 17602 | 17602 |
| 5°  | 17714 | 17169 | 17063 |
| 10° | 17607 | 16762 | 16538 |
| 15° | 17502 | 16356 | 16019 |
| 20° | 17400 | 15926 | 15468 |
| 25° | 17298 | 15497 | 14952 |
| 30° | 17159 | 15039 | 14444 |
| 35° | 17009 | 14564 | 13957 |
| 40° | 16839 | 14059 | 13373 |
| 45° | 16551 | 13465 | 12705 |
| 50° | 16210 | 12822 | 12025 |
| 55° | 15795 | 11973 | 11291 |
| 60° | 15161 | 11107 | 10331 |
| 65° | 14265 | 9997  | 8985  |
| 70° | 12805 | 8551  | 7286  |
| 75° | 10628 | 6489  | 5600  |
| 80° | 7621  | 4242  | 3671  |
| 85° | 3591  | 2043  | 1640  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16551 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 103.4  | 3.2       |
| 10°-20°   | 298.1  | 9.1       |
| 20°-30°   | 456.3  | 14.0      |
| 30°-40°   | 559.1  | 17.1      |
| 40°-50°   | 591.3  | 18.1      |
| 50°-60°   | 545.8  | 16.7      |
| 60°-70°   | 421.3  | 12.9      |
| 70°-80°   | 233.8  | 7.2       |
| 80°-90°   | 57.9   | 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       |
| <hr/>     |        |           |
| 0°-30°    | 857.8  | 26.3      |
| 0°-40°    | 1416.8 | 43.4      |
| 0°-60°    | 2554.0 | 78.2      |
| 0°-90°    | 3267.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3267.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1089 | 1089  | 1089 | 1089  | 1089 |      |
| 5°  | 1098 | 1084  | 1087 | 1084  | 1086 | 104  |
| 15° | 1064 | 1051  | 1059 | 1055  | 1054 | 300  |
| 25° | 998  | 986   | 994  | 986   | 985  | 460  |
| 35° | 900  | 890   | 898  | 888   | 893  | 563  |
| 45° | 769  | 762   | 772  | 763   | 764  | 594  |
| 55° | 611  | 606   | 613  | 612   | 616  | 545  |
| 65° | 423  | 419   | 435  | 432   | 424  | 417  |
| 75° | 210  | 222   | 224  | 224   | 215  | 223  |
| 85° | 33   | 49    | 50   | 51    | 47   | 45   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1089.1 | 1089.1 | 1089.1 | 1089.1 | 1089.1 |
| 2.5°  | 1100.5 | 1086.3 | 1089.1 | 1087.4 | 1084.2 |
| 5°    | 1097.8 | 1083.6 | 1086.9 | 1084.2 | 1086.3 |
| 7.5°  | 1093.4 | 1078.2 | 1083.6 | 1079.8 | 1082.0 |
| 10°   | 1084.7 | 1071.7 | 1077.1 | 1072.8 | 1074.4 |
| 12.5° | 1075.5 | 1061.9 | 1069.5 | 1064.1 | 1066.2 |
| 15°   | 1063.5 | 1051.0 | 1058.6 | 1054.8 | 1053.7 |
| 17.5° | 1050.5 | 1038.5 | 1046.1 | 1041.8 | 1040.1 |
| 20°   | 1034.7 | 1023.3 | 1030.3 | 1023.8 | 1022.2 |
| 22.5° | 1017.3 | 1005.9 | 1014.0 | 1004.8 | 1005.3 |
| 25°   | 998.3  | 986.3  | 994.5  | 985.8  | 985.2  |
| 27.5° | 976.5  | 965.1  | 973.8  | 964.6  | 965.6  |
| 30°   | 952.6  | 941.2  | 949.9  | 940.6  | 941.7  |
| 32.5° | 926.5  | 917.2  | 924.9  | 916.2  | 922.1  |
| 35°   | 899.8  | 890.1  | 898.2  | 888.4  | 893.3  |
| 37.5° | 871.0  | 861.8  | 870.5  | 859.6  | 864.0  |
| 40°   | 840.0  | 831.9  | 839.5  | 829.7  | 833.5  |
| 42.5° | 804.2  | 799.3  | 806.9  | 797.1  | 800.3  |
| 45°   | 769.4  | 762.3  | 771.5  | 763.4  | 764.5  |
| 47.5° | 734.6  | 726.9  | 735.6  | 728.6  | 728.0  |
| 50°   | 692.7  | 690.0  | 698.1  | 692.7  | 692.2  |
| 52.5° | 653.0  | 647.6  | 656.3  | 653.5  | 655.2  |
| 55°   | 610.6  | 605.7  | 612.8  | 612.2  | 615.5  |
| 57.5° | 566.6  | 561.7  | 570.9  | 569.8  | 572.5  |
| 60°   | 519.8  | 516.0  | 527.9  | 525.2  | 527.4  |
| 62.5° | 474.1  | 467.1  | 482.3  | 480.1  | 479.0  |
| 65°   | 423.0  | 418.7  | 435.0  | 432.3  | 424.1  |
| 67.5° | 370.3  | 368.6  | 385.5  | 380.1  | 366.5  |
| 70°   | 317.5  | 318.6  | 334.9  | 324.6  | 313.2  |
| 72.5° | 262.1  | 270.2  | 280.0  | 272.4  | 264.2  |
| 75°   | 209.9  | 222.4  | 224.0  | 223.5  | 215.3  |
| 77.5° | 158.8  | 174.5  | 170.7  | 174.5  | 168.0  |
| 80°   | 110.9  | 128.3  | 125.6  | 128.9  | 123.4  |
| 82.5° | 68.5   | 84.3   | 84.8   | 87.0   | 82.1   |
| 85°   | 33.2   | 48.9   | 50.0   | 50.6   | 46.8   |
| 87.5° | 7.1    | 22.8   | 23.4   | 21.7   | 19.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)