

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: P218632

Luminaire Tested: **2SNLED-LD5-21SL-RW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218632  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35689)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNLED-LD5-21SL-RW-UNV-L840-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 2FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2358.0 lumens  
Efficiency: N/A  
Efficacy: 137.1 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.19 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 2' x H: 0.17')  
CIE Type: Direct

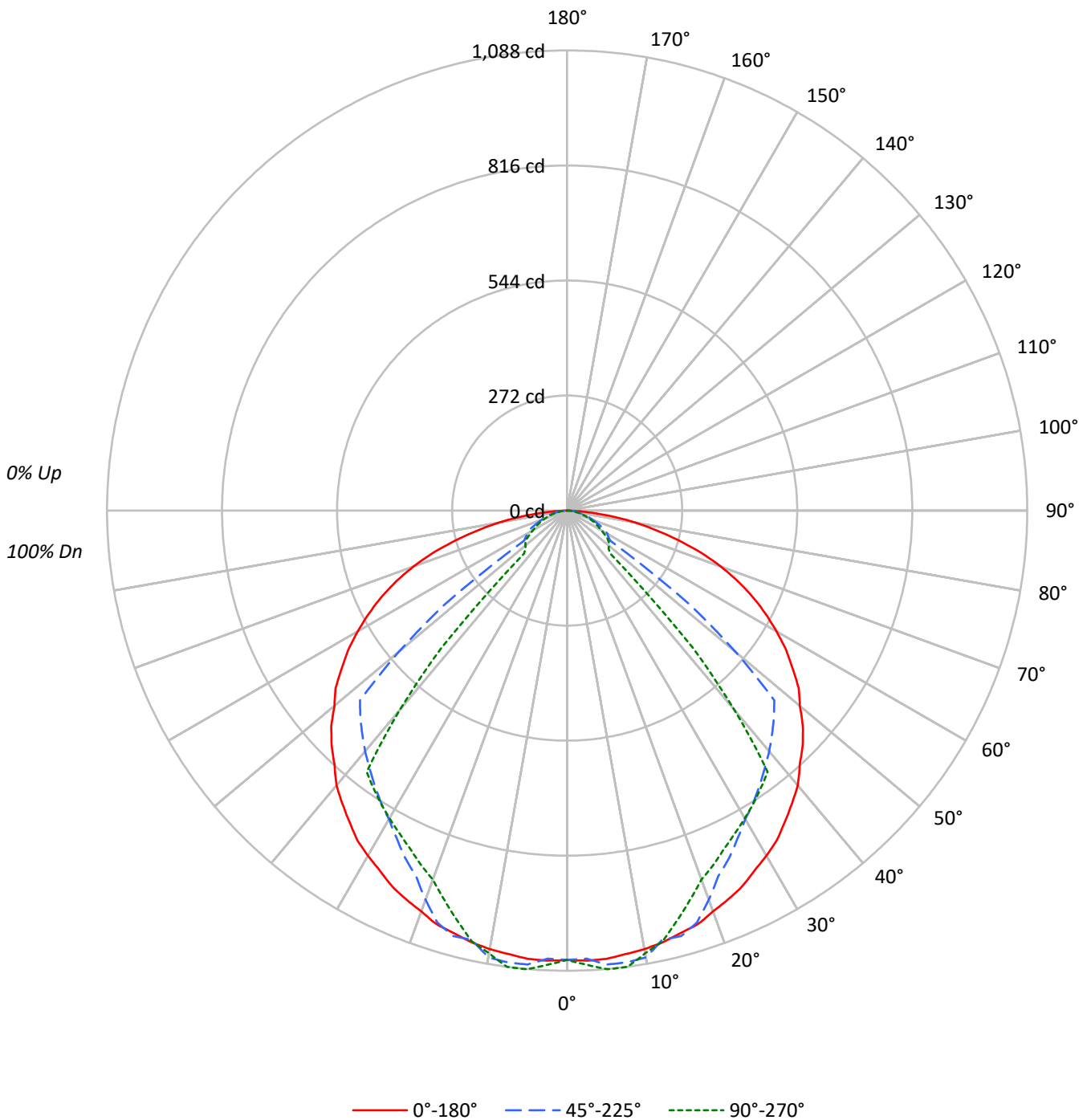
Input Watts (W): 17.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 92  | 91  | 89  | 87  |
| 2   | 102 | 95  | 89  | 84  | 99  | 93  | 87  | 83  | 89  | 85  | 81  | 86  | 82  | 79  | 83  | 80  | 77  | 75  |
| 3   | 94  | 84  | 77  | 71  | 91  | 83  | 76  | 71  | 80  | 74  | 70  | 77  | 72  | 68  | 75  | 71  | 67  | 65  |
| 4   | 87  | 76  | 68  | 62  | 84  | 74  | 67  | 61  | 72  | 66  | 61  | 70  | 64  | 60  | 68  | 63  | 59  | 57  |
| 5   | 80  | 68  | 60  | 54  | 78  | 67  | 60  | 54  | 65  | 59  | 53  | 63  | 57  | 53  | 62  | 56  | 52  | 50  |
| 6   | 74  | 62  | 54  | 48  | 73  | 61  | 53  | 48  | 59  | 53  | 47  | 58  | 52  | 47  | 56  | 51  | 47  | 45  |
| 7   | 69  | 57  | 49  | 43  | 68  | 56  | 48  | 43  | 54  | 48  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 40  |
| 8   | 65  | 52  | 44  | 39  | 63  | 51  | 44  | 39  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 36  |
| 9   | 61  | 48  | 40  | 35  | 59  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 44  | 39  | 34  | 33  |
| 10  | 57  | 44  | 37  | 32  | 56  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 32  | 41  | 36  | 32  | 30  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 34248 | 34248 | 34248 |
| 5°  | 34168 | 32665 | 32380 |
| 10° | 33952 | 30920 | 29563 |
| 15° | 33757 | 28836 | 26408 |
| 20° | 33567 | 26254 | 23349 |
| 25° | 33549 | 23749 | 21355 |
| 30° | 33446 | 21737 | 19817 |
| 35° | 33370 | 20313 | 18500 |
| 40° | 33363 | 19024 | 14096 |
| 45° | 33113 | 17837 | 3279  |
| 50° | 32754 | 13636 | 2953  |
| 55° | 32660 | 3332  | 2703  |
| 60° | 32204 | 3033  | 2206  |
| 65° | 31342 | 2556  | 1819  |
| 70° | 29600 | 1979  | 1423  |
| 75° | 25917 | 1468  | 1037  |
| 80° | 20441 | 983   | 651   |
| 85° | 10936 | 561   | 292   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 102.6  | 4.4       |
| 10°-20°   | 290.8  | 12.3      |
| 20°-30°   | 428.3  | 18.2      |
| 30°-40°   | 515.5  | 21.9      |
| 40°-50°   | 441.5  | 18.7      |
| 50°-60°   | 285.7  | 12.1      |
| 60°-70°   | 189.9  | 8.1       |
| 70°-80°   | 81.0   | 3.4       |
| 80°-90°   | 22.6   | 1.0       |
| 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°    | 821.7  | 34.8      |
| 0°-40°    | 1337.2 | 56.7      |
| 0°-60°    | 2064.4 | 87.5      |
| 0°-90°    | 2358.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2358.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1063 | 1063  | 1063 | 1063  | 1063 |      |
| 5°  | 1064 | 1068  | 1077 | 1090  | 1088 | 101  |
| 15° | 1034 | 1063  | 1042 | 1020  | 1004 | 293  |
| 25° | 980  | 986   | 906  | 887   | 881  | 452  |
| 35° | 898  | 863   | 793  | 800   | 800  | 563  |
| 45° | 787  | 700   | 691  | 422   | 144  | 607  |
| 55° | 651  | 552   | 124  | 118   | 117  | 582  |
| 65° | 485  | 348   | 89   | 76    | 75   | 478  |
| 75° | 273  | 64    | 46   | 41    | 39   | 289  |
| 85° | 58   | 17    | 15   | 11    | 10   | 74   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 |
| 2.5°  | 1065.1 | 1061.4 | 1060.2 | 1073.7 | 1075.0 |
| 5°    | 1063.9 | 1067.6 | 1077.4 | 1089.7 | 1088.5 |
| 7.5°  | 1057.7 | 1070.0 | 1077.4 | 1095.9 | 1088.5 |
| 10°   | 1052.8 | 1075.0 | 1072.5 | 1073.7 | 1062.7 |
| 12.5° | 1045.4 | 1066.3 | 1039.3 | 1057.7 | 1043.0 |
| 15°   | 1034.4 | 1062.7 | 1041.7 | 1019.6 | 1003.6 |
| 17.5° | 1025.8 | 1055.3 | 1020.8 | 968.0  | 965.5  |
| 20°   | 1008.5 | 1024.5 | 979.0  | 940.9  | 928.6  |
| 22.5° | 995.0  | 1013.5 | 934.7  | 908.9  | 905.2  |
| 25°   | 980.2  | 986.4  | 906.5  | 886.8  | 880.6  |
| 27.5° | 959.3  | 971.6  | 873.2  | 863.4  | 859.7  |
| 30°   | 942.1  | 942.1  | 842.5  | 842.5  | 840.0  |
| 32.5° | 923.7  | 902.8  | 819.1  | 820.4  | 820.4  |
| 35°   | 897.8  | 863.4  | 793.3  | 799.5  | 799.5  |
| 37.5° | 873.2  | 815.4  | 767.5  | 777.3  | 778.5  |
| 40°   | 848.6  | 778.5  | 742.9  | 753.9  | 616.2  |
| 42.5° | 814.2  | 738.0  | 717.0  | 580.5  | 439.1  |
| 45°   | 787.2  | 699.8  | 691.2  | 421.9  | 143.9  |
| 47.5° | 756.4  | 662.9  | 664.2  | 134.1  | 132.8  |
| 50°   | 718.3  | 624.8  | 520.3  | 126.7  | 129.1  |
| 52.5° | 690.0  | 590.4  | 366.5  | 123.0  | 124.2  |
| 55°   | 650.6  | 552.2  | 124.2  | 118.1  | 116.8  |
| 57.5° | 613.7  | 516.6  | 115.6  | 109.5  | 104.5  |
| 60°   | 571.9  | 478.4  | 109.5  | 97.2   | 93.5   |
| 62.5° | 528.9  | 440.3  | 100.9  | 86.1   | 83.6   |
| 65°   | 484.6  | 348.1  | 88.6   | 76.3   | 75.0   |
| 67.5° | 437.9  | 228.8  | 75.0   | 67.6   | 66.4   |
| 70°   | 386.2  | 89.8   | 65.2   | 59.0   | 56.6   |
| 72.5° | 332.1  | 77.5   | 55.3   | 50.4   | 48.0   |
| 75°   | 273.0  | 64.0   | 45.5   | 40.6   | 39.4   |
| 77.5° | 217.7  | 48.0   | 36.9   | 32.0   | 30.7   |
| 80°   | 162.3  | 35.7   | 28.3   | 24.6   | 23.4   |
| 82.5° | 110.7  | 25.8   | 20.9   | 17.2   | 16.0   |
| 85°   | 57.8   | 17.2   | 14.8   | 11.1   | 9.8    |
| 87.5° | 22.1   | 11.1   | 8.6    | 4.9    | 4.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)