

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: P218022

Luminaire Tested: **8TSNLED-LD5-96SL-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218022  
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: 8TSNLED-LD5-96SL-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10627.0 lumens  
Efficiency: N/A  
Efficacy: 153.6 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')  
CIE Type: Direct

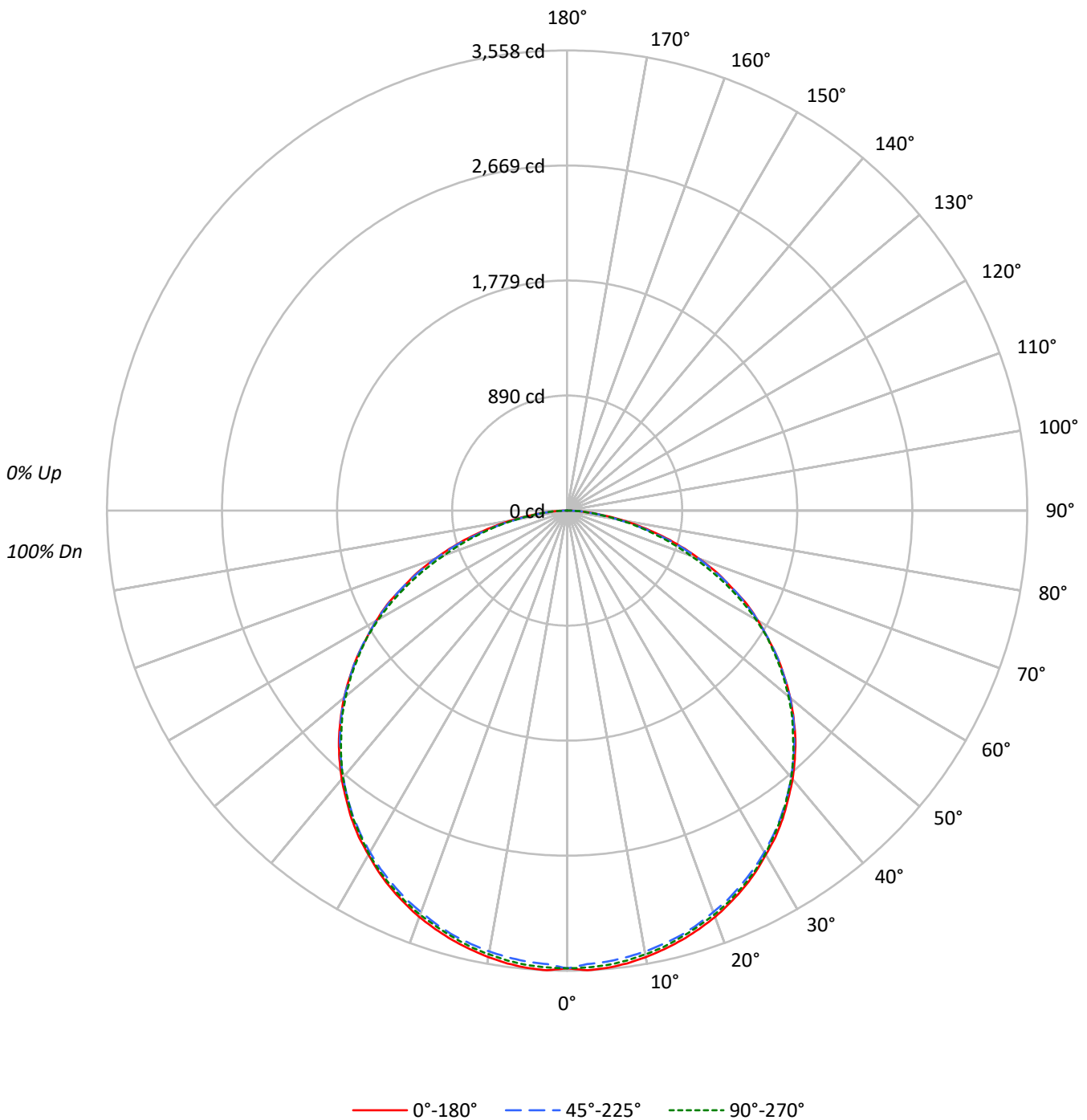
Input Watts (W): 69.18  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 28515 | 28515 | 28515 |
| 5°  | 28661 | 26644 | 26239 |
| 10° | 28579 | 25126 | 24231 |
| 15° | 28503 | 23760 | 22461 |
| 20° | 28458 | 22434 | 20908 |
| 25° | 28377 | 21217 | 19452 |
| 30° | 28244 | 20030 | 18078 |
| 35° | 28181 | 18848 | 16732 |
| 40° | 28035 | 17645 | 15427 |
| 45° | 27852 | 16440 | 14070 |
| 50° | 27553 | 15155 | 12779 |
| 55° | 27120 | 13752 | 11396 |
| 60° | 26520 | 12211 | 9949  |
| 65° | 25552 | 10504 | 8244  |
| 70° | 24155 | 8503  | 6376  |
| 75° | 21971 | 6132  | 4569  |
| 80° | 18146 | 3649  | 2837  |
| 85° | 12068 | 1579  | 1148  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 335.4   | 3.2       |
| 10°-20°   | 965.6   | 9.1       |
| 20°-30°   | 1479.4  | 13.9      |
| 30°-40°   | 1810.8  | 17.0      |
| 40°-50°   | 1916.2  | 18.0      |
| 50°-60°   | 1772.3  | 16.7      |
| 60°-70°   | 1376.2  | 12.9      |
| 70°-80°   | 775.2   | 7.3       |
| 80°-90°   | 196.1   | 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°    | 2780.4  | 26.2      |
| 0°-40°    | 4591.1  | 43.2      |
| 0°-60°    | 8279.6  | 77.9      |
| 0°-90°    | 10627.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10627.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3539 | 3539  | 3539 | 3539  | 3539 |      |
| 5°  | 3550 | 3536  | 3502 | 3536  | 3528 | 337  |
| 15° | 3436 | 3425  | 3400 | 3429  | 3414 | 970  |
| 25° | 3223 | 3212  | 3190 | 3216  | 3208 | 1486 |
| 35° | 2907 | 2896  | 2885 | 2892  | 2892 | 1818 |
| 45° | 2496 | 2492  | 2484 | 2481  | 2470 | 1923 |
| 55° | 1988 | 1996  | 1988 | 1981  | 1970 | 1774 |
| 65° | 1400 | 1411  | 1404 | 1386  | 1360 | 1389 |
| 75° | 761  | 761   | 728  | 709   | 695  | 801  |
| 85° | 162  | 162   | 158  | 158   | 154  | 201  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3539.2 | 3539.2 | 3539.2 | 3539.2 | 3539.2 |
| 2.5°  | 3557.6 | 3542.9 | 3509.8 | 3542.9 | 3535.6 |
| 5°    | 3550.3 | 3535.6 | 3502.5 | 3535.6 | 3528.2 |
| 7.5°  | 3531.9 | 3520.9 | 3484.1 | 3517.2 | 3509.8 |
| 10°   | 3506.2 | 3495.1 | 3462.1 | 3495.1 | 3484.1 |
| 12.5° | 3473.1 | 3462.1 | 3432.7 | 3462.1 | 3454.7 |
| 15°   | 3436.3 | 3425.3 | 3399.6 | 3429.0 | 3414.3 |
| 17.5° | 3392.2 | 3384.9 | 3355.5 | 3384.9 | 3370.2 |
| 20°   | 3344.4 | 3329.7 | 3304.0 | 3333.4 | 3326.1 |
| 22.5° | 3285.6 | 3278.3 | 3252.6 | 3278.3 | 3270.9 |
| 25°   | 3223.2 | 3212.1 | 3190.1 | 3215.8 | 3208.5 |
| 27.5° | 3153.3 | 3146.0 | 3123.9 | 3142.3 | 3142.3 |
| 30°   | 3072.5 | 3068.8 | 3050.4 | 3068.8 | 3065.1 |
| 32.5° | 2995.3 | 2988.0 | 2969.6 | 2984.3 | 2976.9 |
| 35°   | 2907.1 | 2896.1 | 2885.0 | 2892.4 | 2892.4 |
| 37.5° | 2807.9 | 2804.2 | 2793.2 | 2804.2 | 2793.2 |
| 40°   | 2712.3 | 2705.0 | 2693.9 | 2697.6 | 2697.6 |
| 42.5° | 2605.7 | 2602.1 | 2591.0 | 2591.0 | 2587.4 |
| 45°   | 2495.5 | 2491.8 | 2484.4 | 2480.8 | 2469.7 |
| 47.5° | 2374.2 | 2370.5 | 2370.5 | 2366.8 | 2359.5 |
| 50°   | 2252.9 | 2252.9 | 2249.2 | 2238.2 | 2234.5 |
| 52.5° | 2120.6 | 2128.0 | 2116.9 | 2109.6 | 2105.9 |
| 55°   | 1988.3 | 1995.6 | 1988.3 | 1980.9 | 1969.9 |
| 57.5° | 1841.3 | 1856.0 | 1845.0 | 1841.3 | 1837.6 |
| 60°   | 1705.3 | 1712.7 | 1705.3 | 1694.3 | 1686.9 |
| 62.5° | 1565.6 | 1565.6 | 1554.6 | 1547.3 | 1525.2 |
| 65°   | 1400.3 | 1411.3 | 1403.9 | 1385.6 | 1359.8 |
| 67.5° | 1253.2 | 1245.9 | 1238.5 | 1216.5 | 1187.1 |
| 70°   | 1084.2 | 1087.9 | 1076.8 | 1043.8 | 1014.4 |
| 72.5° | 922.5  | 929.8  | 907.8  | 863.7  | 856.3  |
| 75°   | 760.8  | 760.8  | 727.7  | 709.3  | 694.6  |
| 77.5° | 595.4  | 599.1  | 555.0  | 551.3  | 547.6  |
| 80°   | 437.4  | 444.7  | 400.6  | 411.6  | 407.9  |
| 82.5° | 297.7  | 290.3  | 272.0  | 272.0  | 268.3  |
| 85°   | 161.7  | 161.7  | 158.0  | 158.0  | 154.4  |
| 87.5° | 62.5   | 66.2   | 73.5   | 80.9   | 77.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)