

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: P218262

Luminaire Tested: **8TSNLED-LD5-91SL-LN-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218262  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35686)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8TSNLED-LD5-91SL-LN-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10085.0 lumens  
Efficiency: N/A  
Efficacy: 145.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.04 / 1.17  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')  
CIE Type: Direct

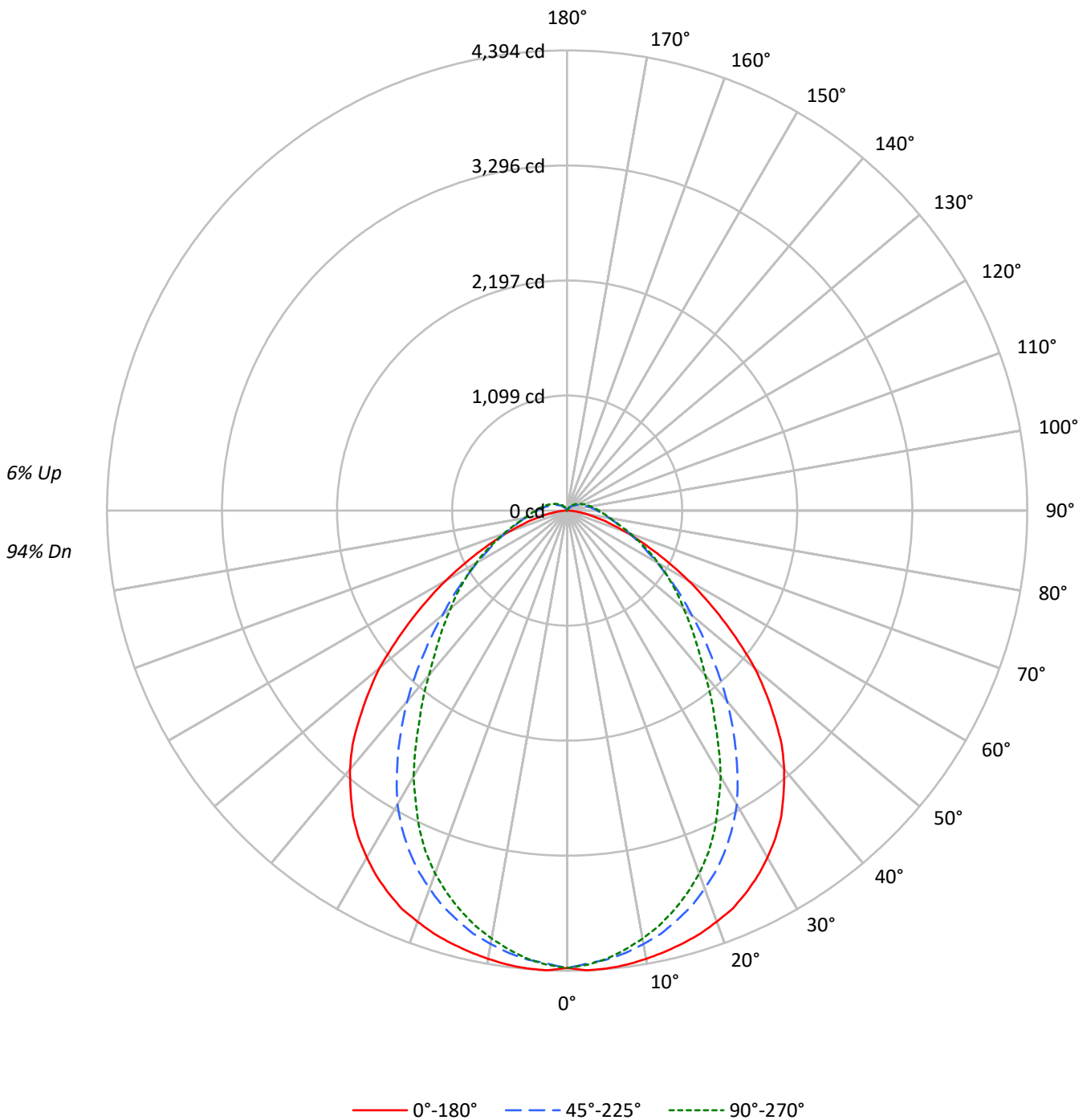
Input Watts (W): 69.18  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P218262

CATALOG NUMBER: 8TSNLED-LD5-91SL-LN-UNV-L850-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P218262

CATALOG NUMBER: 8TSNLED-LD5-91SL-LN-UNV-L850-CD1-U

**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   | 108 | 103 | 99  | 95  | 105 | 100 | 97  | 93  | 95  | 92  | 89  | 90  | 88  | 86  | 86 | 84 | 82 | 80 |
| 2   | 99  | 91  | 85  | 79  | 96  | 89  | 83  | 78  | 84  | 79  | 75  | 80  | 76  | 73  | 77 | 73 | 70 | 68 |
| 3   | 91  | 81  | 73  | 67  | 88  | 79  | 72  | 66  | 75  | 69  | 64  | 72  | 67  | 63  | 69 | 64 | 61 | 59 |
| 4   | 84  | 73  | 64  | 58  | 81  | 71  | 63  | 57  | 68  | 61  | 56  | 65  | 59  | 55  | 62 | 57 | 53 | 51 |
| 5   | 77  | 65  | 57  | 51  | 75  | 64  | 56  | 50  | 61  | 54  | 49  | 59  | 53  | 48  | 56 | 51 | 47 | 45 |
| 6   | 72  | 59  | 51  | 45  | 70  | 58  | 50  | 44  | 56  | 49  | 44  | 54  | 47  | 43  | 52 | 46 | 42 | 40 |
| 7   | 67  | 54  | 46  | 40  | 65  | 53  | 45  | 40  | 51  | 44  | 39  | 49  | 43  | 38  | 47 | 42 | 38 | 36 |
| 8   | 63  | 50  | 42  | 36  | 61  | 49  | 41  | 36  | 47  | 40  | 35  | 45  | 39  | 35  | 44 | 38 | 34 | 32 |
| 9   | 59  | 46  | 38  | 33  | 57  | 45  | 38  | 33  | 43  | 37  | 32  | 42  | 36  | 32  | 41 | 35 | 31 | 29 |
| 10  | 55  | 42  | 35  | 30  | 54  | 42  | 35  | 30  | 40  | 34  | 29  | 39  | 33  | 29  | 38 | 32 | 29 | 27 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 35189 | 35189 | 35189 |
| 5°  | 35430 | 32740 | 31968 |
| 10° | 35427 | 30502 | 28860 |
| 15° | 35478 | 28298 | 25970 |
| 20° | 35537 | 26083 | 23180 |
| 25° | 35505 | 23783 | 20262 |
| 30° | 35167 | 21283 | 17299 |
| 35° | 34562 | 18364 | 14231 |
| 40° | 33337 | 15557 | 11729 |
| 45° | 31252 | 12798 | 9838  |
| 50° | 28592 | 10454 | 8295  |
| 55° | 24714 | 8636  | 7070  |
| 60° | 20823 | 7077  | 5923  |
| 65° | 16676 | 5884  | 4896  |
| 70° | 13140 | 4951  | 4041  |
| 75° | 10128 | 4209  | 3356  |
| 80° | 7272  | 3726  | 2882  |
| 85° | 4762  | 3398  | 2608  |



TEST NUMBER: P218262

CATALOG NUMBER: 8TSNLED-LD5-91SL-LN-UNV-L850-CD1-U

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 410.6   | 4.1       |
| 10°-20°   | 1152.4  | 11.4      |
| 20°-30°   | 1668.8  | 16.5      |
| 30°-40°   | 1816.2  | 18.0      |
| 40°-50°   | 1613.0  | 16.0      |
| 50°-60°   | 1227.8  | 12.2      |
| 60°-70°   | 815.2   | 8.1       |
| 70°-80°   | 496.7   | 4.9       |
| 80°-90°   | 307.8   | 3.1       |
| 90°-100°  | 210.2   | 2.1       |
| 100°-110° | 147.5   | 1.5       |
| 110°-120° | 100.5   | 1.0       |
| 120°-130° | 63.8    | 0.6       |
| 130°-140° | 36.2    | 0.4       |
| 140°-150° | 17.0    | 0.2       |
| 150°-160° | 1.2     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-30°    | 3231.8  | 32.0      |
| 0°-40°    | 5048.0  | 50.1      |
| 0°-60°    | 7888.8  | 78.2      |
| 0°-90°    | 9508.6  | 94.3      |
| 90°-120°  | 458.2   | 4.5       |
| 90°-150°  | 575.3   | 5.7       |
| 90°-180°  | 576.0   | 5.7       |
| 0°-180°   | 10085.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 4368 | 4368  | 4368 | 4368  | 4368 |      |
| 5°   | 4389 | 4362  | 4304 | 4325  | 4298 | 417  |
| 15°  | 4277 | 4203  | 4049 | 4001  | 3948 | 1209 |
| 25°  | 4033 | 3852  | 3576 | 3432  | 3342 | 1857 |
| 35°  | 3565 | 3246  | 2811 | 2566  | 2460 | 2221 |
| 45°  | 2800 | 2380  | 1934 | 1769  | 1727 | 2156 |
| 55°  | 1812 | 1472  | 1249 | 1227  | 1222 | 1625 |
| 65°  | 914  | 786   | 786  | 818   | 808  | 922  |
| 75°  | 351  | 398   | 500  | 526   | 510  | 379  |
| 85°  | 64   | 202   | 340  | 361   | 351  | 76   |
| 90°  | 0    | 149   | 287  | 314   | 303  | 4    |
| 95°  | 0    | 117   | 244  | 271   | 266  | 0    |
| 105° | 0    | 74    | 175  | 202   | 202  | 0    |
| 115° | 0    | 48    | 128  | 154   | 149  | 0    |
| 125° | 0    | 32    | 85   | 106   | 106  | 0    |
| 135° | 0    | 21    | 58   | 74    | 74   | 0    |
| 145° | 0    | 11    | 32   | 42    | 42   | 0    |
| 155° | 0    | 0     | 0    | 0     | 0    | 0    |
| 165° | 0    | 0     | 0    | 0     | 0    | 0    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    | 0    |



TEST NUMBER: P218262

CATALOG NUMBER: 8TSNLED-LD5-91SL-LN-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 4367.6 | 4367.6 | 4367.6 | 4367.6 | 4367.6 |
| 2.5°   | 4394.1 | 4372.9 | 4330.4 | 4356.9 | 4341.0 |
| 5°     | 4388.8 | 4362.3 | 4303.8 | 4325.1 | 4298.5 |
| 7.5°   | 4372.9 | 4341.0 | 4261.3 | 4271.9 | 4229.4 |
| 10°    | 4346.3 | 4303.8 | 4202.9 | 4192.2 | 4149.7 |
| 12.5°  | 4314.4 | 4261.3 | 4139.1 | 4101.9 | 4059.4 |
| 15°    | 4277.2 | 4202.9 | 4048.8 | 4000.9 | 3947.8 |
| 17.5°  | 4234.7 | 4133.8 | 3958.4 | 3884.1 | 3825.6 |
| 20°    | 4176.3 | 4054.1 | 3841.5 | 3751.2 | 3687.5 |
| 22.5°  | 4117.8 | 3958.4 | 3719.3 | 3597.1 | 3528.1 |
| 25°    | 4032.8 | 3852.2 | 3575.9 | 3432.4 | 3342.1 |
| 27.5°  | 3937.2 | 3730.0 | 3416.5 | 3230.5 | 3129.6 |
| 30°    | 3825.6 | 3586.5 | 3241.1 | 3023.3 | 2933.0 |
| 32.5°  | 3703.4 | 3427.1 | 3028.6 | 2794.8 | 2693.9 |
| 35°    | 3565.3 | 3246.5 | 2810.8 | 2566.3 | 2460.1 |
| 37.5°  | 3395.2 | 3049.9 | 2592.9 | 2343.2 | 2258.2 |
| 40°    | 3225.2 | 2842.6 | 2375.1 | 2141.3 | 2051.0 |
| 42.5°  | 3033.9 | 2614.2 | 2151.9 | 1939.4 | 1875.6 |
| 45°    | 2800.1 | 2380.4 | 1934.1 | 1769.3 | 1726.8 |
| 47.5°  | 2571.7 | 2141.3 | 1737.5 | 1620.6 | 1583.4 |
| 50°    | 2337.9 | 1907.5 | 1551.5 | 1477.1 | 1450.5 |
| 52.5°  | 2066.9 | 1679.0 | 1397.4 | 1349.6 | 1339.0 |
| 55°    | 1811.9 | 1471.8 | 1248.6 | 1227.4 | 1222.1 |
| 57.5°  | 1567.4 | 1275.2 | 1110.5 | 1126.4 | 1115.8 |
| 60°    | 1339.0 | 1094.5 | 988.3  | 1009.5 | 1004.2 |
| 62.5°  | 1115.8 | 929.8  | 876.7  | 919.2  | 908.6  |
| 65°    | 913.9  | 786.4  | 786.4  | 818.3  | 807.6  |
| 67.5°  | 738.6  | 669.5  | 701.4  | 733.2  | 722.6  |
| 70°    | 589.8  | 563.2  | 627.0  | 653.5  | 642.9  |
| 72.5°  | 456.9  | 472.9  | 552.6  | 584.5  | 568.5  |
| 75°    | 350.7  | 398.5  | 499.5  | 526.0  | 510.1  |
| 77.5°  | 249.7  | 334.7  | 451.6  | 472.9  | 456.9  |
| 80°    | 175.3  | 281.6  | 409.1  | 430.4  | 414.4  |
| 82.5°  | 111.6  | 239.1  | 371.9  | 393.2  | 382.6  |
| 85°    | 63.8   | 201.9  | 340.1  | 361.3  | 350.7  |
| 87.5°  | 31.9   | 175.3  | 308.2  | 334.7  | 324.1  |
| 90°    | 0.0    | 148.8  | 286.9  | 313.5  | 302.9  |
| 92.5°  | 0.0    | 132.8  | 265.7  | 292.2  | 281.6  |
| 95°    | 0.0    | 116.9  | 244.4  | 271.0  | 265.7  |
| 97.5°  | 0.0    | 106.3  | 228.5  | 255.0  | 244.4  |
| 100°   | 0.0    | 90.3   | 207.2  | 233.8  | 228.5  |
| 102.5° | 0.0    | 85.0   | 191.3  | 217.8  | 212.5  |
| 105°   | 0.0    | 74.4   | 175.3  | 201.9  | 201.9  |
| 107.5° | 0.0    | 69.1   | 164.7  | 191.3  | 186.0  |
| 110°   | 0.0    | 58.4   | 148.8  | 175.3  | 175.3  |



TEST NUMBER: P218262

CATALOG NUMBER: 8TSNLED-LD5-91SL-LN-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 53.1  | 138.1 | 164.7 | 159.4 |
| 115°   | 0.0 | 47.8  | 127.5 | 154.1 | 148.8 |
| 117.5° | 0.0 | 47.8  | 116.9 | 138.1 | 138.1 |
| 120°   | 0.0 | 42.5  | 106.3 | 127.5 | 127.5 |
| 122.5° | 0.0 | 37.2  | 95.6  | 116.9 | 116.9 |
| 125°   | 0.0 | 31.9  | 85.0  | 106.3 | 106.3 |
| 127.5° | 0.0 | 31.9  | 79.7  | 101.0 | 101.0 |
| 130°   | 0.0 | 26.6  | 69.1  | 90.3  | 90.3  |
| 132.5° | 0.0 | 21.3  | 63.8  | 79.7  | 79.7  |
| 135°   | 0.0 | 21.3  | 58.4  | 74.4  | 74.4  |
| 137.5° | 0.0 | 15.9  | 47.8  | 63.8  | 63.8  |
| 140°   | 0.0 | 15.9  | 42.5  | 58.4  | 58.4  |
| 142.5° | 0.0 | 10.6  | 37.2  | 53.1  | 47.8  |
| 145°   | 0.0 | 10.6  | 31.9  | 42.5  | 42.5  |
| 147.5° | 0.0 | 5.3   | 26.6  | 37.2  | 37.2  |
| 150°   | 0.0 | 5.3   | 21.3  | 31.9  | 26.6  |
| 152.5° | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 155°   | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 157.5° | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 160°   | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 162.5° | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 165°   | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 167.5° | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 170°   | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 172.5° | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 175°   | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 177.5° | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 180°   | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)