

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: P218263

Luminaire Tested: **8TSNLED-LD5-98SL-LN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218263  
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-LD5-98SL-LN-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9392.0 lumens  
Efficiency: N/A  
Efficacy: 121.4 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

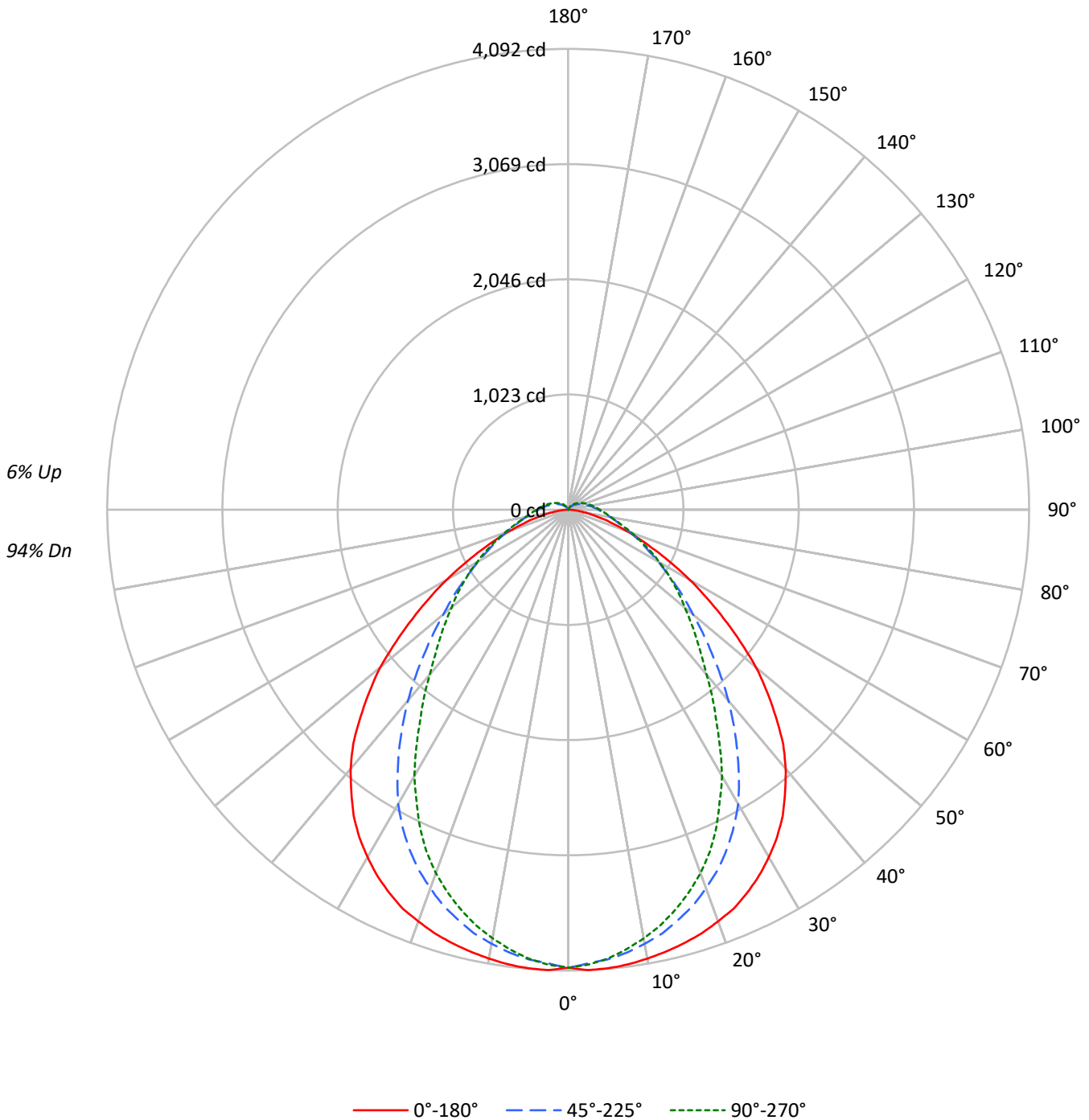
Input Watts (W): 77.38  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P218263

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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   | 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°  | 32770 | 32770 | 32770 |
| 5°  | 32995 | 30490 | 29771 |
| 10° | 32993 | 28406 | 26877 |
| 15° | 33040 | 26353 | 24185 |
| 20° | 33095 | 24292 | 21587 |
| 25° | 33065 | 22149 | 18869 |
| 30° | 32750 | 19820 | 16110 |
| 35° | 32187 | 17101 | 13253 |
| 40° | 31046 | 14488 | 10923 |
| 45° | 29105 | 11919 | 9162  |
| 50° | 26627 | 9735  | 7726  |
| 55° | 23015 | 8042  | 6584  |
| 60° | 19393 | 6591  | 5516  |
| 65° | 15530 | 5479  | 4560  |
| 70° | 12238 | 4611  | 3763  |
| 75° | 9432  | 3919  | 3125  |
| 80° | 6775  | 3470  | 2685  |
| 85° | 4433  | 3165  | 2429  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 382.4  | 4.1       |
| 10°-20°   | 1073.2 | 11.4      |
| 20°-30°   | 1554.1 | 16.5      |
| 30°-40°   | 1691.4 | 18.0      |
| 40°-50°   | 1502.2 | 16.0      |
| 50°-60°   | 1143.4 | 12.2      |
| 60°-70°   | 759.2  | 8.1       |
| 70°-80°   | 462.6  | 4.9       |
| 80°-90°   | 286.7  | 3.1       |
| 90°-100°  | 195.8  | 2.1       |
| 100°-110° | 137.4  | 1.5       |
| 110°-120° | 93.6   | 1.0       |
| 120°-130° | 59.4   | 0.6       |
| 130°-140° | 33.7   | 0.4       |
| 140°-150° | 15.8   | 0.2       |
| 150°-160° | 1.1    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 3009.7 | 32.0      |
| 0°-40°    | 4701.1 | 50.1      |
| 0°-60°    | 7346.7 | 78.2      |
| 0°-90°    | 8855.2 | 94.3      |
| 90°-120°  | 426.8  | 4.5       |
| 90°-150°  | 535.8  | 5.7       |
| 90°-180°  | 537.0  | 5.7       |
| 0°-180°   | 9392.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 4067 | 4067  | 4067 | 4067  | 4067 |      |
| 5°   | 4087 | 4062  | 4008 | 4028  | 4003 | 389  |
| 15°  | 3983 | 3914  | 3771 | 3726  | 3676 | 1126 |
| 25°  | 3756 | 3588  | 3330 | 3197  | 3112 | 1729 |
| 35°  | 3320 | 3023  | 2618 | 2390  | 2291 | 2068 |
| 45°  | 2608 | 2217  | 1801 | 1648  | 1608 | 2008 |
| 55°  | 1687 | 1371  | 1163 | 1143  | 1138 | 1514 |
| 65°  | 851  | 732   | 732  | 762   | 752  | 858  |
| 75°  | 327  | 371   | 465  | 490   | 475  | 353  |
| 85°  | 59   | 188   | 317  | 336   | 327  | 71   |
| 90°  | 0    | 139   | 267  | 292   | 282  | 4    |
| 95°  | 0    | 109   | 228  | 252   | 247  | 0    |
| 105° | 0    | 69    | 163  | 188   | 188  | 0    |
| 115° | 0    | 44    | 119  | 144   | 139  | 0    |
| 125° | 0    | 30    | 79   | 99    | 99   | 0    |
| 135° | 0    | 20    | 54   | 69    | 69   | 0    |
| 145° | 0    | 10    | 30   | 40    | 40   | 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: P218263

CATALOG NUMBER: 8TSNLED-LD5-98SL-LN-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 4067.4 | 4067.4 | 4067.4 | 4067.4 | 4067.4 |
| 2.5°   | 4092.2 | 4072.4 | 4032.8 | 4057.6 | 4042.7 |
| 5°     | 4087.2 | 4062.5 | 4008.1 | 4027.9 | 4003.1 |
| 7.5°   | 4072.4 | 4042.7 | 3968.5 | 3978.4 | 3938.8 |
| 10°    | 4047.7 | 4008.1 | 3914.1 | 3904.2 | 3864.6 |
| 12.5°  | 4018.0 | 3968.5 | 3854.7 | 3820.0 | 3780.4 |
| 15°    | 3983.3 | 3914.1 | 3770.6 | 3726.0 | 3676.5 |
| 17.5°  | 3943.7 | 3849.7 | 3686.4 | 3617.2 | 3562.7 |
| 20°    | 3889.3 | 3775.5 | 3577.6 | 3493.5 | 3434.1 |
| 22.5°  | 3834.9 | 3686.4 | 3463.8 | 3350.0 | 3285.6 |
| 25°    | 3755.7 | 3587.5 | 3330.2 | 3196.6 | 3112.4 |
| 27.5°  | 3666.6 | 3473.7 | 3181.7 | 3008.5 | 2914.5 |
| 30°    | 3562.7 | 3340.1 | 3018.4 | 2815.5 | 2731.4 |
| 32.5°  | 3448.9 | 3191.6 | 2820.5 | 2602.8 | 2508.8 |
| 35°    | 3320.3 | 3023.4 | 2617.6 | 2390.0 | 2291.0 |
| 37.5°  | 3161.9 | 2840.3 | 2414.7 | 2182.2 | 2103.0 |
| 40°    | 3003.6 | 2647.3 | 2211.9 | 1994.1 | 1910.0 |
| 42.5°  | 2825.4 | 2434.5 | 2004.0 | 1806.1 | 1746.7 |
| 45°    | 2607.7 | 2216.8 | 1801.2 | 1647.8 | 1608.2 |
| 47.5°  | 2394.9 | 1994.1 | 1618.1 | 1509.2 | 1474.6 |
| 50°    | 2177.2 | 1776.4 | 1444.9 | 1375.6 | 1350.9 |
| 52.5°  | 1924.9 | 1563.6 | 1301.4 | 1256.9 | 1247.0 |
| 55°    | 1687.3 | 1370.7 | 1162.8 | 1143.0 | 1138.1 |
| 57.5°  | 1459.7 | 1187.6 | 1034.2 | 1049.0 | 1039.1 |
| 60°    | 1247.0 | 1019.3 | 920.4  | 940.2  | 935.2  |
| 62.5°  | 1039.1 | 865.9  | 816.5  | 856.0  | 846.1  |
| 65°    | 851.1  | 732.3  | 732.3  | 762.0  | 752.1  |
| 67.5°  | 687.8  | 623.5  | 653.2  | 682.9  | 673.0  |
| 70°    | 549.3  | 524.5  | 583.9  | 608.6  | 598.7  |
| 72.5°  | 425.5  | 440.4  | 514.6  | 544.3  | 529.5  |
| 75°    | 326.6  | 371.1  | 465.1  | 489.9  | 475.0  |
| 77.5°  | 232.6  | 311.7  | 420.6  | 440.4  | 425.5  |
| 80°    | 163.3  | 262.3  | 381.0  | 400.8  | 386.0  |
| 82.5°  | 103.9  | 222.7  | 346.4  | 366.2  | 356.3  |
| 85°    | 59.4   | 188.0  | 316.7  | 336.5  | 326.6  |
| 87.5°  | 29.7   | 163.3  | 287.0  | 311.7  | 301.8  |
| 90°    | 0.0    | 138.6  | 267.2  | 291.9  | 282.0  |
| 92.5°  | 0.0    | 123.7  | 247.4  | 272.2  | 262.3  |
| 95°    | 0.0    | 108.9  | 227.6  | 252.4  | 247.4  |
| 97.5°  | 0.0    | 99.0   | 212.8  | 237.5  | 227.6  |
| 100°   | 0.0    | 84.1   | 193.0  | 217.7  | 212.8  |
| 102.5° | 0.0    | 79.2   | 178.1  | 202.9  | 197.9  |
| 105°   | 0.0    | 69.3   | 163.3  | 188.0  | 188.0  |
| 107.5° | 0.0    | 64.3   | 153.4  | 178.1  | 173.2  |
| 110°   | 0.0    | 54.4   | 138.6  | 163.3  | 163.3  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 49.5  | 128.7 | 153.4 | 148.4 |
| 115°   | 0.0 | 44.5  | 118.8 | 143.5 | 138.6 |
| 117.5° | 0.0 | 44.5  | 108.9 | 128.7 | 128.7 |
| 120°   | 0.0 | 39.6  | 99.0  | 118.8 | 118.8 |
| 122.5° | 0.0 | 34.6  | 89.1  | 108.9 | 108.9 |
| 125°   | 0.0 | 29.7  | 79.2  | 99.0  | 99.0  |
| 127.5° | 0.0 | 29.7  | 74.2  | 94.0  | 94.0  |
| 130°   | 0.0 | 24.7  | 64.3  | 84.1  | 84.1  |
| 132.5° | 0.0 | 19.8  | 59.4  | 74.2  | 74.2  |
| 135°   | 0.0 | 19.8  | 54.4  | 69.3  | 69.3  |
| 137.5° | 0.0 | 14.8  | 44.5  | 59.4  | 59.4  |
| 140°   | 0.0 | 14.8  | 39.6  | 54.4  | 54.4  |
| 142.5° | 0.0 | 9.9   | 34.6  | 49.5  | 44.5  |
| 145°   | 0.0 | 9.9   | 29.7  | 39.6  | 39.6  |
| 147.5° | 0.0 | 4.9   | 24.7  | 34.6  | 34.6  |
| 150°   | 0.0 | 4.9   | 19.8  | 29.7  | 24.7  |
| 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)