

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: P#

Luminaire Tested: **8SNLED-LD5-127SL-SLC-UNV-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27404)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-127SL-SLC-UNV-L930-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

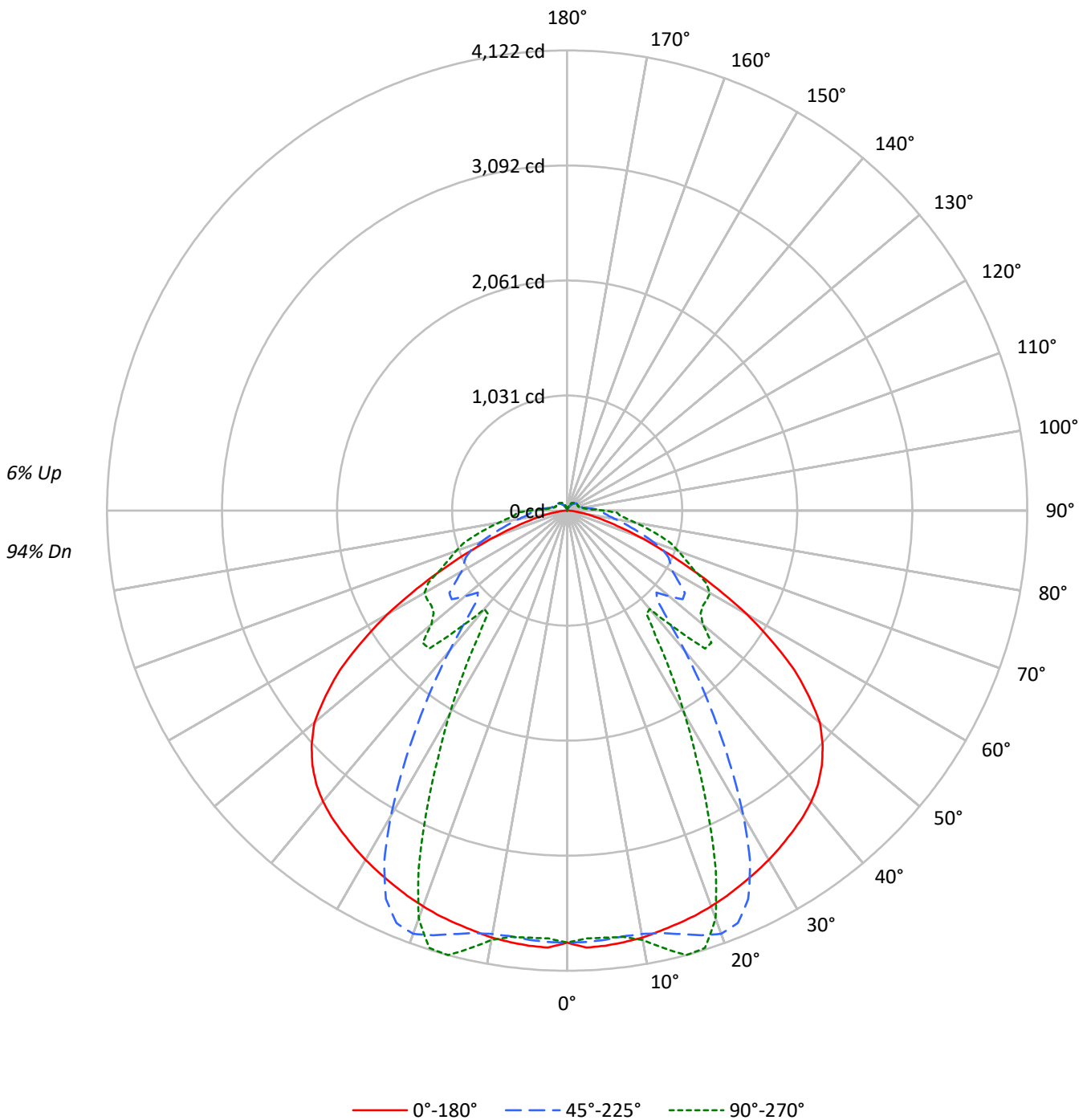
Lumens per Lamp: N/A  
Luminaire Lumens: 9941.0 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 103  
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: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P#

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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   | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 94 |
| 1   | 107 | 102 | 98  | 94  | 104 | 99  | 95  | 92  | 94  | 91  | 88  | 89  | 87  | 84  | 85 | 83 | 81 | 78 |
| 2   | 98  | 90  | 83  | 77  | 95  | 87  | 81  | 76  | 83  | 78  | 73  | 79  | 74  | 71  | 75 | 71 | 68 | 66 |
| 3   | 89  | 79  | 71  | 65  | 87  | 77  | 70  | 64  | 73  | 67  | 62  | 70  | 65  | 60  | 67 | 62 | 59 | 56 |
| 4   | 82  | 71  | 62  | 56  | 80  | 69  | 61  | 55  | 66  | 59  | 53  | 63  | 57  | 52  | 60 | 55 | 51 | 49 |
| 5   | 76  | 63  | 55  | 48  | 74  | 62  | 54  | 48  | 59  | 52  | 47  | 57  | 51  | 46  | 54 | 49 | 45 | 43 |
| 6   | 70  | 58  | 49  | 43  | 68  | 56  | 48  | 42  | 54  | 47  | 41  | 52  | 45  | 41  | 50 | 44 | 40 | 38 |
| 7   | 66  | 52  | 44  | 38  | 64  | 51  | 43  | 38  | 49  | 42  | 37  | 47  | 41  | 36  | 46 | 40 | 36 | 34 |
| 8   | 61  | 48  | 40  | 34  | 59  | 47  | 39  | 34  | 45  | 38  | 33  | 44  | 37  | 33  | 42 | 37 | 32 | 30 |
| 9   | 57  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 42  | 35  | 30  | 41  | 34  | 30  | 39 | 34 | 29 | 28 |
| 10  | 54  | 41  | 33  | 28  | 52  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 27  | 37 | 31 | 27 | 25 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 15636 | 15636 | 15636 |
| 5°  | 15848 | 15285 | 15083 |
| 10° | 15890 | 15066 | 15030 |
| 15° | 15956 | 15292 | 15666 |
| 20° | 16128 | 15761 | 14705 |
| 25° | 16355 | 15161 | 11323 |
| 30° | 16706 | 12710 | 8054  |
| 35° | 17152 | 9635  | 5453  |
| 40° | 17713 | 7011  | 4618  |
| 45° | 18159 | 5092  | 7260  |
| 50° | 18236 | 5645  | 6889  |
| 55° | 17105 | 6506  | 6804  |
| 60° | 14638 | 5963  | 7232  |
| 65° | 11078 | 6025  | 6615  |
| 70° | 7840  | 5498  | 6157  |
| 75° | 5206  | 4620  | 5525  |
| 80° | 3405  | 3974  | 4599  |
| 85° | 1955  | 3799  | 4128  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 368.2  | 3.7       |
| 10°-20°   | 1111.9 | 11.2      |
| 20°-30°   | 1615.2 | 16.2      |
| 30°-40°   | 1543.2 | 15.5      |
| 40°-50°   | 1411.6 | 14.2      |
| 50°-60°   | 1303.4 | 13.1      |
| 60°-70°   | 1035.3 | 10.4      |
| 70°-80°   | 639.0  | 6.4       |
| 80°-90°   | 348.0  | 3.5       |
| 90°-100°  | 175.9  | 1.8       |
| 100°-110° | 110.5  | 1.1       |
| 110°-120° | 93.6   | 0.9       |
| 120°-130° | 76.5   | 0.8       |
| 130°-140° | 54.8   | 0.6       |
| 140°-150° | 33.8   | 0.3       |
| 150°-160° | 16.1   | 0.2       |
| 160°-170° | 4.2    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 3095.2 | 31.1      |
| 0°-40°    | 4638.4 | 46.7      |
| 0°-60°    | 7353.4 | 74.0      |
| 0°-90°    | 9375.6 | 94.3      |
| 90°-120°  | 380.0  | 3.8       |
| 90°-150°  | 545.1  | 5.5       |
| 90°-180°  | 565.0  | 5.7       |
| 0°-180°   | 9941.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3870 | 3870  | 3870 | 3870  | 3870 |      |
| 5°   | 3913 | 3853  | 3860 | 3839  | 3841 | 372  |
| 15°  | 3830 | 3779  | 3926 | 4072  | 4122 | 1084 |
| 25°  | 3695 | 3767  | 3839 | 3250  | 2984 | 1708 |
| 35°  | 3515 | 3459  | 2332 | 1605  | 1396 | 2204 |
| 45°  | 3228 | 2251  | 1138 | 1451  | 1747 | 2480 |
| 55°  | 2482 | 1155  | 1288 | 1386  | 1484 | 2186 |
| 65°  | 1198 | 749   | 1004 | 1220  | 1249 | 1211 |
| 75°  | 353  | 399   | 601  | 797   | 850  | 400  |
| 85°  | 50   | 170   | 341  | 464   | 471  | 63   |
| 90°  | 2    | 127   | 305  | 362   | 334  | 3    |
| 95°  | 0    | 118   | 211  | 187   | 176  | 0    |
| 105° | 0    | 106   | 130  | 118   | 116  | 0    |
| 115° | 0    | 87    | 125  | 111   | 106  | 1    |
| 125° | 2    | 70    | 111  | 108   | 103  | 1    |
| 135° | 2    | 50    | 89   | 98    | 94   | 1    |
| 145° | 2    | 31    | 62   | 79    | 84   | 1    |
| 155° | 3    | 19    | 38   | 50    | 60   | 1    |
| 165° | 3    | 10    | 19   | 24    | 32   | 1    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-127SL-SLC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3869.9 | 3869.9 | 3869.9 | 3869.9 | 3869.9 |
| 2.5°   | 3917.9 | 3861.4 | 3868.2 | 3856.2 | 3835.7 |
| 5°     | 3912.8 | 3852.8 | 3859.7 | 3839.1 | 3840.8 |
| 7.5°   | 3899.1 | 3837.4 | 3846.0 | 3842.5 | 3851.1 |
| 10°    | 3883.6 | 3818.5 | 3851.1 | 3880.2 | 3905.9 |
| 12.5°  | 3856.2 | 3798.0 | 3876.8 | 3962.4 | 4015.6 |
| 15°    | 3830.5 | 3779.1 | 3926.5 | 4072.1 | 4121.8 |
| 17.5°  | 3804.8 | 3772.3 | 3988.1 | 4114.9 | 4108.1 |
| 20°    | 3772.3 | 3768.9 | 4034.4 | 3991.6 | 3887.1 |
| 22.5°  | 3736.3 | 3770.6 | 3998.4 | 3684.9 | 3479.3 |
| 25°    | 3695.2 | 3767.1 | 3839.1 | 3249.8 | 2984.3 |
| 27.5°  | 3654.1 | 3751.7 | 3549.6 | 2773.5 | 2511.4 |
| 30°    | 3613.0 | 3710.6 | 3159.0 | 2338.4 | 2100.3 |
| 32.5°  | 3565.0 | 3621.5 | 2734.1 | 1953.0 | 1733.7 |
| 35°    | 3515.3 | 3458.8 | 2331.6 | 1605.2 | 1396.2 |
| 37.5°  | 3463.9 | 3224.1 | 1970.1 | 1300.3 | 1166.6 |
| 40°    | 3402.3 | 2929.4 | 1637.7 | 1115.2 | 1151.2 |
| 42.5°  | 3325.2 | 2597.1 | 1344.8 | 1170.1 | 1420.2 |
| 45°    | 3227.5 | 2251.0 | 1137.5 | 1451.0 | 1747.4 |
| 47.5°  | 3104.2 | 1918.7 | 1086.1 | 1661.7 | 1754.2 |
| 50°    | 2955.1 | 1613.8 | 1194.0 | 1593.2 | 1586.3 |
| 52.5°  | 2729.0 | 1360.2 | 1303.7 | 1452.7 | 1507.5 |
| 55°    | 2482.3 | 1154.6 | 1288.3 | 1385.9 | 1483.6 |
| 57.5°  | 2170.5 | 1015.9 | 1182.1 | 1372.2 | 1485.3 |
| 60°    | 1860.4 | 923.4  | 1091.3 | 1370.5 | 1476.7 |
| 62.5°  | 1517.8 | 839.4  | 1045.0 | 1337.9 | 1401.3 |
| 65°    | 1197.5 | 748.6  | 1003.9 | 1219.7 | 1248.9 |
| 67.5°  | 918.2  | 656.1  | 931.9  | 1087.8 | 1146.1 |
| 70°    | 692.1  | 565.3  | 818.9  | 986.8  | 1058.7 |
| 72.5°  | 498.5  | 479.7  | 702.4  | 897.7  | 973.1  |
| 75°    | 352.9  | 399.2  | 601.3  | 796.6  | 849.7  |
| 77.5°  | 243.3  | 325.5  | 515.6  | 685.2  | 728.1  |
| 80°    | 159.3  | 260.4  | 438.6  | 589.3  | 618.4  |
| 82.5°  | 95.9   | 209.0  | 380.3  | 515.6  | 531.1  |
| 85°    | 49.7   | 169.6  | 340.9  | 464.3  | 471.1  |
| 87.5°  | 15.4   | 142.2  | 318.6  | 440.3  | 448.8  |
| 90°    | 1.7    | 126.8  | 304.9  | 361.5  | 334.1  |
| 92.5°  | 0.0    | 119.9  | 263.8  | 246.7  | 221.0  |
| 95°    | 0.0    | 118.2  | 210.7  | 186.7  | 176.5  |
| 97.5°  | 0.0    | 114.8  | 173.0  | 155.9  | 150.8  |
| 100°   | 0.0    | 111.4  | 149.0  | 137.0  | 135.3  |
| 102.5° | 0.0    | 109.6  | 135.3  | 125.1  | 123.3  |
| 105°   | 0.0    | 106.2  | 130.2  | 118.2  | 116.5  |
| 107.5° | 0.0    | 101.1  | 126.8  | 114.8  | 111.4  |
| 110°   | 0.0    | 95.9   | 126.8  | 113.1  | 107.9  |



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 90.8  | 126.8 | 111.4 | 106.2 |
| 115°   | 0.0 | 87.4  | 125.1 | 111.4 | 106.2 |
| 117.5° | 1.7 | 83.9  | 123.3 | 111.4 | 106.2 |
| 120°   | 0.0 | 80.5  | 119.9 | 111.4 | 104.5 |
| 122.5° | 1.7 | 75.4  | 116.5 | 109.6 | 104.5 |
| 125°   | 1.7 | 70.2  | 111.4 | 107.9 | 102.8 |
| 127.5° | 1.7 | 65.1  | 106.2 | 104.5 | 99.4  |
| 130°   | 1.7 | 60.0  | 101.1 | 102.8 | 97.6  |
| 132.5° | 1.7 | 54.8  | 94.2  | 99.4  | 95.9  |
| 135°   | 1.7 | 49.7  | 89.1  | 97.6  | 94.2  |
| 137.5° | 1.7 | 44.5  | 82.2  | 92.5  | 92.5  |
| 140°   | 1.7 | 39.4  | 75.4  | 89.1  | 90.8  |
| 142.5° | 1.7 | 36.0  | 68.5  | 85.7  | 87.4  |
| 145°   | 1.7 | 30.8  | 61.7  | 78.8  | 83.9  |
| 147.5° | 1.7 | 27.4  | 54.8  | 72.0  | 78.8  |
| 150°   | 1.7 | 24.0  | 48.0  | 65.1  | 72.0  |
| 152.5° | 1.7 | 20.6  | 42.8  | 56.5  | 66.8  |
| 155°   | 3.4 | 18.8  | 37.7  | 49.7  | 60.0  |
| 157.5° | 3.4 | 15.4  | 30.8  | 42.8  | 51.4  |
| 160°   | 3.4 | 13.7  | 27.4  | 36.0  | 46.3  |
| 162.5° | 3.4 | 12.0  | 22.3  | 30.8  | 39.4  |
| 165°   | 3.4 | 10.3  | 18.8  | 24.0  | 32.5  |
| 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)