

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: P218574

Luminaire Tested: **4SNLED-LD5-39SL-RW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218574  
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: 4SNLED-LD5-39SL-RW-UNV-L840-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4262.0 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.19 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')  
CIE Type: Direct

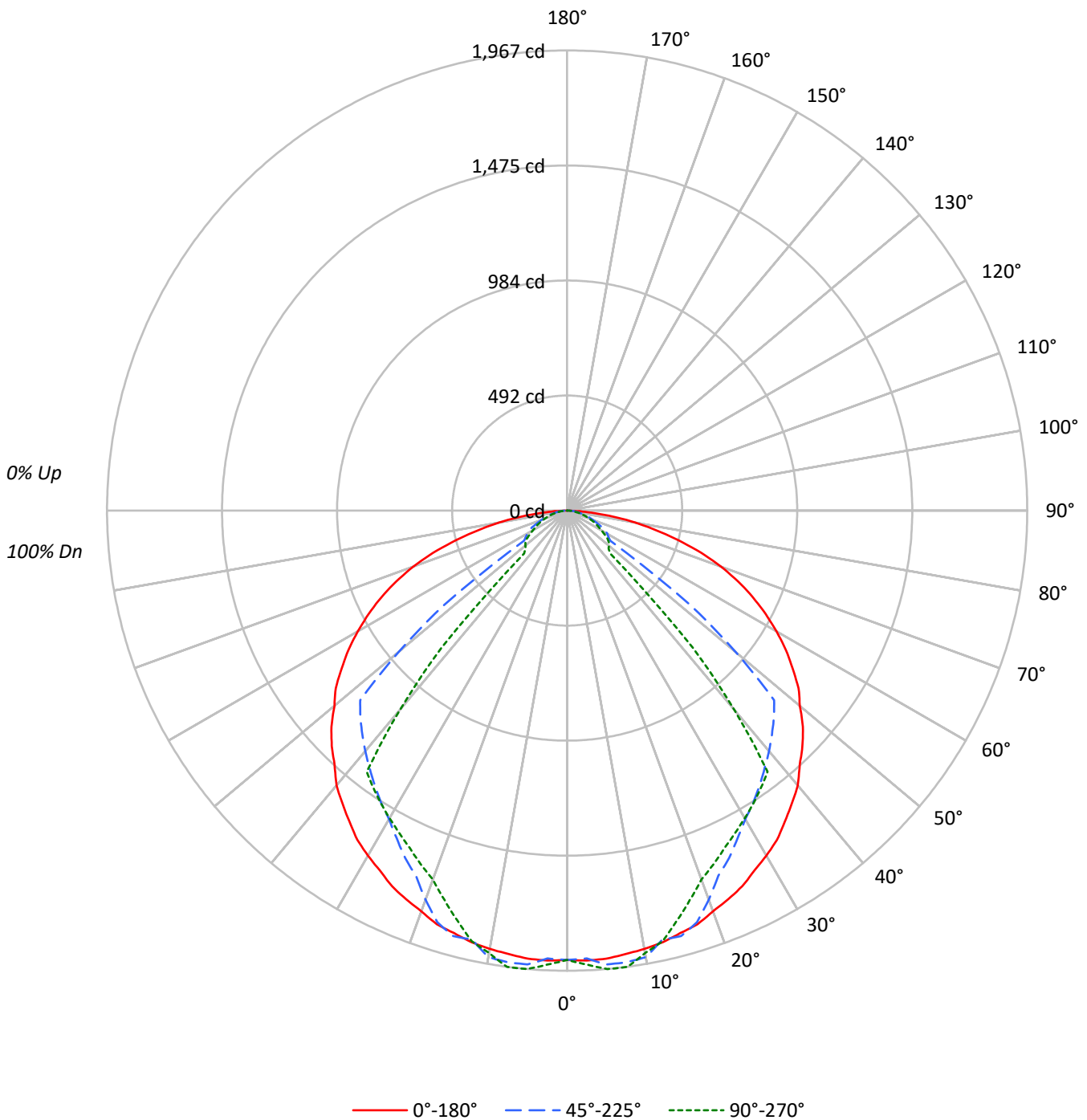
Input Watts (W): 30.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 30949 | 30949 | 30949 |
| 5°  | 30990 | 29592 | 29263 |
| 10° | 30908 | 28072 | 26716 |
| 15° | 30844 | 26233 | 23866 |
| 20° | 30791 | 23928 | 21101 |
| 25° | 30900 | 21682 | 19300 |
| 30° | 30939 | 19879 | 17910 |
| 35° | 31016 | 18608 | 16718 |
| 40° | 31173 | 17455 | 12738 |
| 45° | 31121 | 16395 | 2964  |
| 50° | 31004 | 12552 | 2670  |
| 55° | 31179 | 3074  | 2444  |
| 60° | 31067 | 2802  | 1994  |
| 65° | 30652 | 2366  | 1644  |
| 70° | 29501 | 1835  | 1286  |
| 75° | 26583 | 1367  | 935   |
| 80° | 22014 | 916   | 587   |
| 85° | 13079 | 524   | 265   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 185.4  | 4.4       |
| 10°-20°   | 525.6  | 12.3      |
| 20°-30°   | 774.1  | 18.2      |
| 30°-40°   | 931.8  | 21.9      |
| 40°-50°   | 798.0  | 18.7      |
| 50°-60°   | 516.4  | 12.1      |
| 60°-70°   | 343.3  | 8.1       |
| 70°-80°   | 146.4  | 3.4       |
| 80°-90°   | 40.9   | 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°    | 1485.2 | 34.8      |
| 0°-40°    | 2417.0 | 56.7      |
| 0°-60°    | 3731.4 | 87.5      |
| 0°-90°    | 4262.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4262.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1921 | 1921  | 1921 | 1921  | 1921 |      |
| 5°  | 1923 | 1930  | 1947 | 1970  | 1967 | 183  |
| 15° | 1870 | 1921  | 1883 | 1843  | 1814 | 529  |
| 25° | 1772 | 1783  | 1638 | 1603  | 1592 | 816  |
| 35° | 1623 | 1561  | 1434 | 1445  | 1445 | 1017 |
| 45° | 1423 | 1265  | 1249 | 762   | 260  | 1097 |
| 55° | 1176 | 998   | 224  | 213   | 211  | 1052 |
| 65° | 876  | 629   | 160  | 138   | 136  | 864  |
| 75° | 494  | 116   | 82   | 73    | 71   | 523  |
| 85° | 104  | 31    | 27   | 20    | 18   | 134  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1920.7 | 1920.7 | 1920.7 | 1920.7 | 1920.7 |
| 2.5°  | 1925.2 | 1918.5 | 1916.3 | 1940.7 | 1942.9 |
| 5°    | 1922.9 | 1929.6 | 1947.4 | 1969.6 | 1967.4 |
| 7.5°  | 1911.8 | 1934.0 | 1947.4 | 1980.7 | 1967.4 |
| 10°   | 1902.9 | 1942.9 | 1938.5 | 1940.7 | 1920.7 |
| 12.5° | 1889.6 | 1927.4 | 1878.5 | 1911.8 | 1885.1 |
| 15°   | 1869.6 | 1920.7 | 1882.9 | 1842.9 | 1814.0 |
| 17.5° | 1854.0 | 1907.4 | 1845.1 | 1749.5 | 1745.1 |
| 20°   | 1822.9 | 1851.8 | 1769.5 | 1700.6 | 1678.4 |
| 22.5° | 1798.4 | 1831.8 | 1689.5 | 1642.8 | 1636.2 |
| 25°   | 1771.8 | 1782.9 | 1638.4 | 1602.8 | 1591.7 |
| 27.5° | 1734.0 | 1756.2 | 1578.4 | 1560.6 | 1553.9 |
| 30°   | 1702.9 | 1702.9 | 1522.8 | 1522.8 | 1518.3 |
| 32.5° | 1669.5 | 1631.7 | 1480.5 | 1482.8 | 1482.8 |
| 35°   | 1622.8 | 1560.6 | 1433.9 | 1445.0 | 1445.0 |
| 37.5° | 1578.4 | 1473.9 | 1387.2 | 1405.0 | 1407.2 |
| 40°   | 1533.9 | 1407.2 | 1342.7 | 1362.7 | 1113.7 |
| 42.5° | 1471.7 | 1333.8 | 1296.0 | 1049.3 | 793.6  |
| 45°   | 1422.7 | 1264.9 | 1249.4 | 762.5  | 260.1  |
| 47.5° | 1367.2 | 1198.2 | 1200.4 | 242.3  | 240.1  |
| 50°   | 1298.3 | 1129.3 | 940.3  | 229.0  | 233.4  |
| 52.5° | 1247.1 | 1067.1 | 662.5  | 222.3  | 224.5  |
| 55°   | 1176.0 | 998.1  | 224.5  | 213.4  | 211.2  |
| 57.5° | 1109.3 | 933.7  | 209.0  | 197.9  | 189.0  |
| 60°   | 1033.7 | 864.8  | 197.9  | 175.6  | 169.0  |
| 62.5° | 955.9  | 795.8  | 182.3  | 155.6  | 151.2  |
| 65°   | 875.9  | 629.1  | 160.1  | 137.8  | 135.6  |
| 67.5° | 791.4  | 413.5  | 135.6  | 122.3  | 120.0  |
| 70°   | 698.0  | 162.3  | 117.8  | 106.7  | 102.3  |
| 72.5° | 600.2  | 140.1  | 100.0  | 91.1   | 86.7   |
| 75°   | 493.5  | 115.6  | 82.3   | 73.4   | 71.1   |
| 77.5° | 393.5  | 86.7   | 66.7   | 57.8   | 55.6   |
| 80°   | 293.4  | 64.5   | 51.1   | 44.5   | 42.2   |
| 82.5° | 200.1  | 46.7   | 37.8   | 31.1   | 28.9   |
| 85°   | 104.5  | 31.1   | 26.7   | 20.0   | 17.8   |
| 87.5° | 40.0   | 20.0   | 15.6   | 8.9    | 8.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)