

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: P218572

Luminaire Tested: **4SNLED-LD5-39SL-RW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218572  
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-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3933.0 lumens  
Efficiency: N/A  
Efficacy: 128.5 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

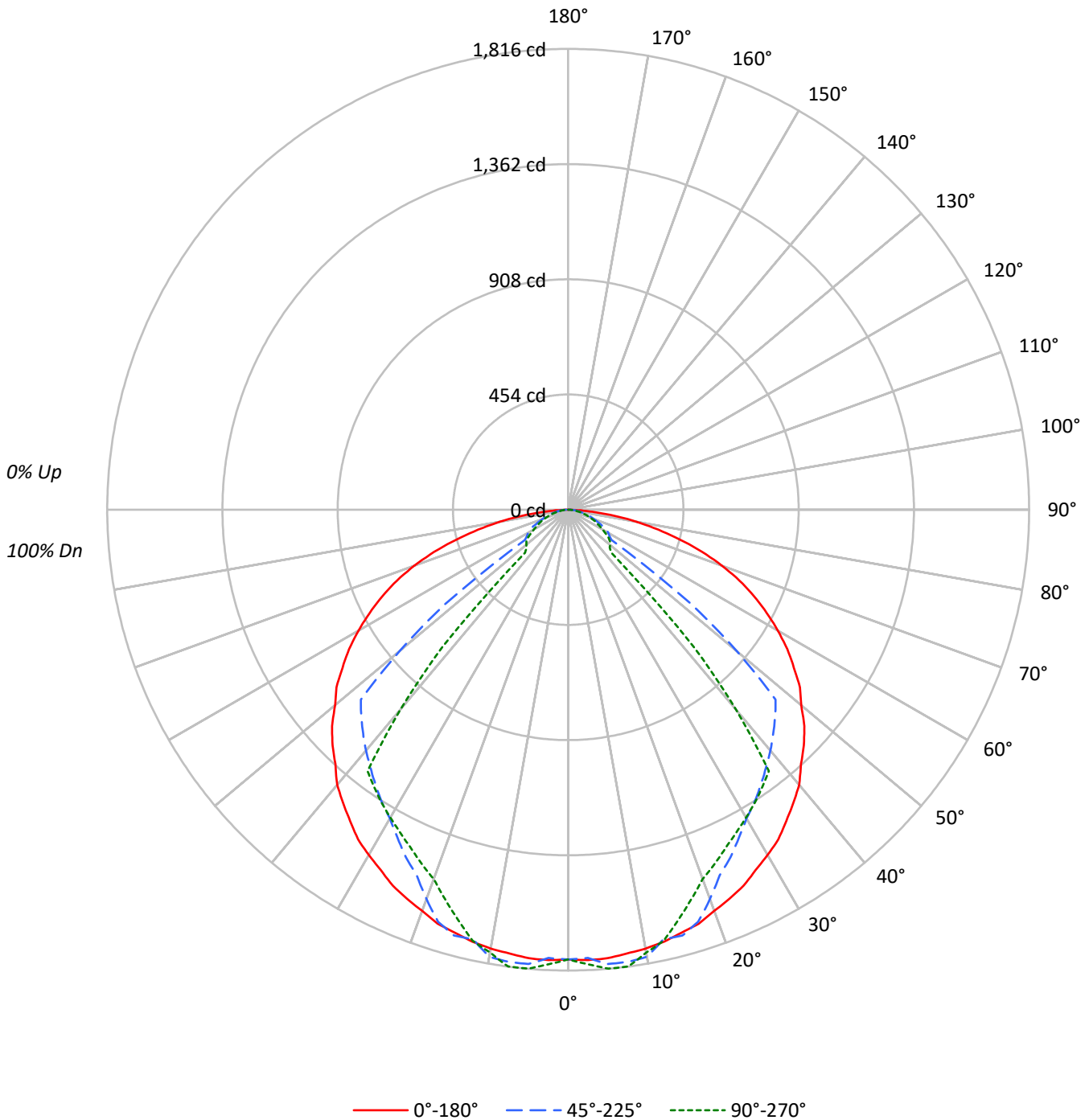
Input Watts (W): 30.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 28560 | 28560 | 28560 |
| 5°  | 28598 | 27309 | 27004 |
| 10° | 28522 | 25906 | 24653 |
| 15° | 28463 | 24209 | 22024 |
| 20° | 28414 | 22081 | 19471 |
| 25° | 28514 | 20008 | 17810 |
| 30° | 28550 | 18344 | 16527 |
| 35° | 28621 | 17172 | 15427 |
| 40° | 28767 | 16108 | 11756 |
| 45° | 28720 | 15128 | 2735  |
| 50° | 28608 | 11585 | 2464  |
| 55° | 28771 | 2837  | 2255  |
| 60° | 28669 | 2586  | 1839  |
| 65° | 28286 | 2183  | 1517  |
| 70° | 27227 | 1694  | 1187  |
| 75° | 24530 | 1260  | 863   |
| 80° | 20318 | 846   | 542   |
| 85° | 12065 | 483   | 244   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 171.1  | 4.4       |
| 10°-20°   | 485.0  | 12.3      |
| 20°-30°   | 714.4  | 18.2      |
| 30°-40°   | 859.9  | 21.9      |
| 40°-50°   | 736.4  | 18.7      |
| 50°-60°   | 476.5  | 12.1      |
| 60°-70°   | 316.8  | 8.1       |
| 70°-80°   | 135.1  | 3.4       |
| 80°-90°   | 37.8   | 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°    | 1370.5 | 34.8      |
| 0°-40°    | 2230.4 | 56.7      |
| 0°-60°    | 3443.3 | 87.5      |
| 0°-90°    | 3933.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3933.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1772 | 1772  | 1772 | 1772  | 1772 |      |
| 5°  | 1774 | 1781  | 1797 | 1818  | 1816 | 169  |
| 15° | 1725 | 1772  | 1738 | 1701  | 1674 | 488  |
| 25° | 1635 | 1645  | 1512 | 1479  | 1469 | 753  |
| 35° | 1498 | 1440  | 1323 | 1333  | 1333 | 938  |
| 45° | 1313 | 1167  | 1153 | 704   | 240  | 1012 |
| 55° | 1085 | 921   | 207  | 197   | 195  | 970  |
| 65° | 808  | 581   | 148  | 127   | 125  | 797  |
| 75° | 455  | 107   | 76   | 68    | 66   | 483  |
| 85° | 96   | 29    | 25   | 18    | 16   | 123  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1772.4 | 1772.4 | 1772.4 | 1772.4 | 1772.4 |
| 2.5°  | 1776.5 | 1770.4 | 1768.3 | 1790.9 | 1793.0 |
| 5°    | 1774.5 | 1780.6 | 1797.1 | 1817.6 | 1815.5 |
| 7.5°  | 1764.2 | 1784.8 | 1797.1 | 1827.8 | 1815.5 |
| 10°   | 1756.0 | 1793.0 | 1788.9 | 1790.9 | 1772.4 |
| 12.5° | 1743.7 | 1778.6 | 1733.5 | 1764.2 | 1739.6 |
| 15°   | 1725.3 | 1772.4 | 1737.6 | 1700.6 | 1674.0 |
| 17.5° | 1710.9 | 1760.1 | 1702.7 | 1614.5 | 1610.4 |
| 20°   | 1682.2 | 1708.8 | 1632.9 | 1569.4 | 1548.8 |
| 22.5° | 1659.6 | 1690.4 | 1559.1 | 1516.0 | 1509.9 |
| 25°   | 1635.0 | 1645.3 | 1511.9 | 1479.1 | 1468.8 |
| 27.5° | 1600.1 | 1620.6 | 1456.5 | 1440.1 | 1434.0 |
| 30°   | 1571.4 | 1571.4 | 1405.2 | 1405.2 | 1401.1 |
| 32.5° | 1540.6 | 1505.8 | 1366.3 | 1368.3 | 1368.3 |
| 35°   | 1497.5 | 1440.1 | 1323.2 | 1333.4 | 1333.4 |
| 37.5° | 1456.5 | 1360.1 | 1280.1 | 1296.5 | 1298.6 |
| 40°   | 1415.5 | 1298.6 | 1239.1 | 1257.5 | 1027.8 |
| 42.5° | 1358.1 | 1230.9 | 1196.0 | 968.3  | 732.4  |
| 45°   | 1312.9 | 1167.3 | 1152.9 | 703.6  | 240.0  |
| 47.5° | 1261.6 | 1105.7 | 1107.8 | 223.6  | 221.6  |
| 50°   | 1198.0 | 1042.1 | 867.8  | 211.3  | 215.4  |
| 52.5° | 1150.9 | 984.7  | 611.3  | 205.1  | 207.2  |
| 55°   | 1085.2 | 921.1  | 207.2  | 196.9  | 194.9  |
| 57.5° | 1023.7 | 861.6  | 192.8  | 182.6  | 174.4  |
| 60°   | 953.9  | 798.0  | 182.6  | 162.1  | 155.9  |
| 62.5° | 882.1  | 734.4  | 168.2  | 143.6  | 139.5  |
| 65°   | 808.3  | 580.6  | 147.7  | 127.2  | 125.1  |
| 67.5° | 730.3  | 381.6  | 125.1  | 112.8  | 110.8  |
| 70°   | 644.2  | 149.8  | 108.7  | 98.5   | 94.4   |
| 72.5° | 553.9  | 129.2  | 92.3   | 84.1   | 80.0   |
| 75°   | 455.4  | 106.7  | 75.9   | 67.7   | 65.6   |
| 77.5° | 363.1  | 80.0   | 61.5   | 53.3   | 51.3   |
| 80°   | 270.8  | 59.5   | 47.2   | 41.0   | 39.0   |
| 82.5° | 184.6  | 43.1   | 34.9   | 28.7   | 26.7   |
| 85°   | 96.4   | 28.7   | 24.6   | 18.5   | 16.4   |
| 87.5° | 36.9   | 18.5   | 14.4   | 8.2    | 8.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)