

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: P218567

Luminaire Tested: **4SNLED-LD5-32SL-RW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218567  
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-LD5-32SL-RW-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3859.0 lumens  
Efficiency: N/A  
Efficacy: 155.0 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

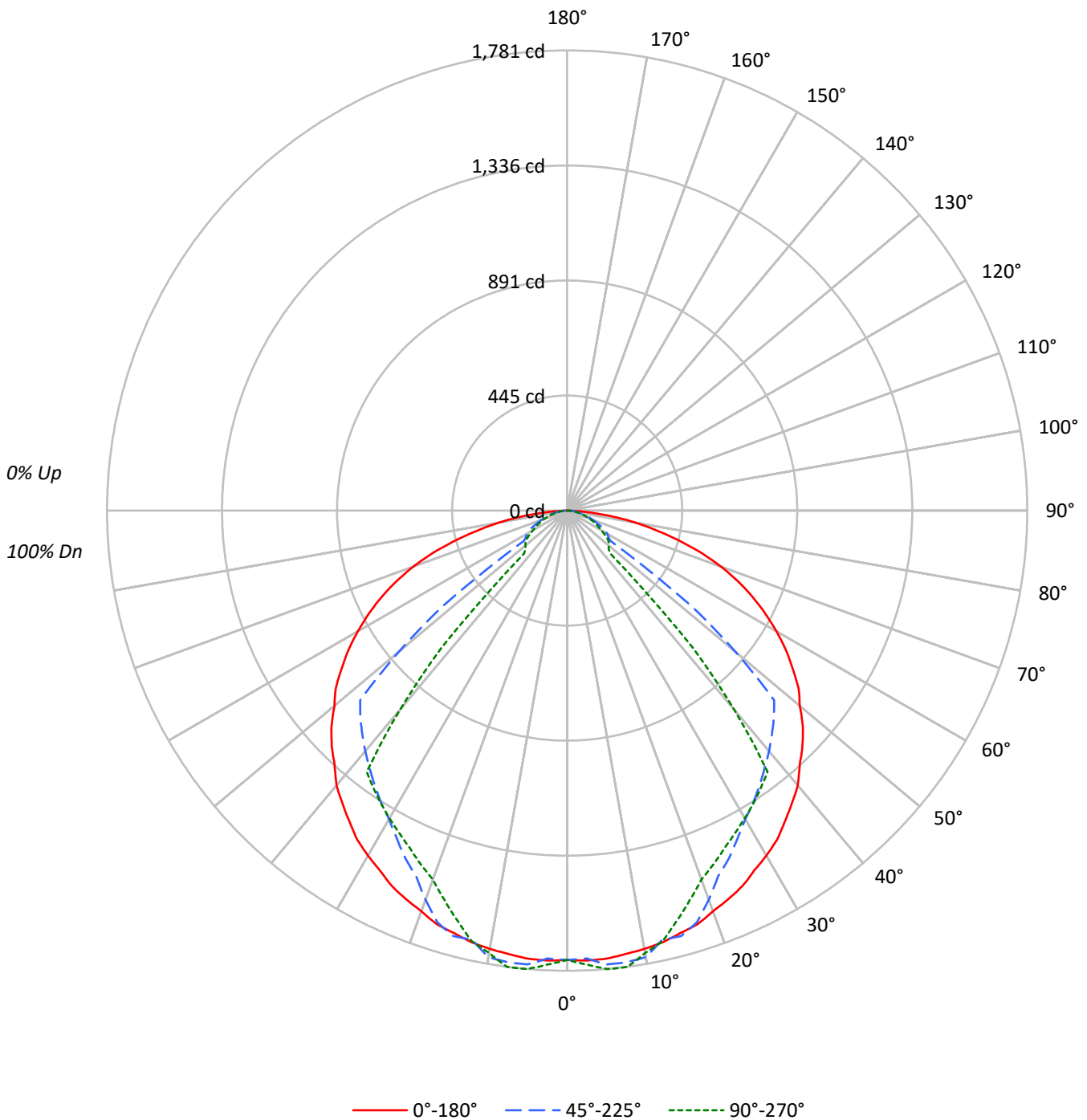
Input Watts (W): 24.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P218567

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L850-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P218567

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-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   | 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°  | 28023 | 28023 | 28023 |
| 5°  | 28060 | 26793 | 26496 |
| 10° | 27986 | 25418 | 24190 |
| 15° | 27927 | 23753 | 21610 |
| 20° | 27879 | 21665 | 19106 |
| 25° | 27977 | 19632 | 17475 |
| 30° | 28012 | 17999 | 16217 |
| 35° | 28084 | 16849 | 15137 |
| 40° | 28226 | 15805 | 11534 |
| 45° | 28179 | 14844 | 2683  |
| 50° | 28071 | 11366 | 2417  |
| 55° | 28230 | 2783  | 2212  |
| 60° | 28131 | 2536  | 1805  |
| 65° | 27754 | 2142  | 1489  |
| 70° | 26712 | 1662  | 1164  |
| 75° | 24072 | 1237  | 847   |
| 80° | 19935 | 830   | 531   |
| 85° | 11840 | 475   | 239   |



TEST NUMBER: P218567

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L850-CD1-U

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 167.9  | 4.4       |
| 10°-20°   | 475.9  | 12.3      |
| 20°-30°   | 700.9  | 18.2      |
| 30°-40°   | 843.7  | 21.9      |
| 40°-50°   | 722.6  | 18.7      |
| 50°-60°   | 467.6  | 12.1      |
| 60°-70°   | 310.8  | 8.1       |
| 70°-80°   | 132.6  | 3.4       |
| 80°-90°   | 37.1   | 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°    | 1344.7 | 34.8      |
| 0°-40°    | 2188.4 | 56.7      |
| 0°-60°    | 3378.5 | 87.5      |
| 0°-90°    | 3859.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3859.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1739 | 1739  | 1739 | 1739  | 1739 |      |
| 5°  | 1741 | 1747  | 1763 | 1783  | 1781 | 165  |
| 15° | 1693 | 1739  | 1705 | 1669  | 1642 | 479  |
| 25° | 1604 | 1614  | 1484 | 1451  | 1441 | 739  |
| 35° | 1469 | 1413  | 1298 | 1308  | 1308 | 921  |
| 45° | 1288 | 1145  | 1131 | 690   | 236  | 993  |
| 55° | 1065 | 904   | 203  | 193   | 191  | 952  |
| 65° | 793  | 570   | 145  | 125   | 123  | 782  |
| 75° | 447  | 105   | 74   | 66    | 64   | 473  |
| 85° | 95   | 28    | 24   | 18    | 16   | 121  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P218567

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1739.1 | 1739.1 | 1739.1 | 1739.1 | 1739.1 |
| 2.5°  | 1743.1 | 1737.1 | 1735.1 | 1757.2 | 1759.2 |
| 5°    | 1741.1 | 1747.1 | 1763.2 | 1783.4 | 1781.4 |
| 7.5°  | 1731.0 | 1751.2 | 1763.2 | 1793.4 | 1781.4 |
| 10°   | 1723.0 | 1759.2 | 1755.2 | 1757.2 | 1739.1 |
| 12.5° | 1710.9 | 1745.1 | 1700.8 | 1731.0 | 1706.9 |
| 15°   | 1692.8 | 1739.1 | 1704.9 | 1668.6 | 1642.5 |
| 17.5° | 1678.7 | 1727.0 | 1670.7 | 1584.1 | 1580.1 |
| 20°   | 1650.5 | 1676.7 | 1602.2 | 1539.8 | 1519.7 |
| 22.5° | 1628.4 | 1658.6 | 1529.8 | 1487.5 | 1481.5 |
| 25°   | 1604.2 | 1614.3 | 1483.5 | 1451.3 | 1441.2 |
| 27.5° | 1570.0 | 1590.1 | 1429.1 | 1413.0 | 1407.0 |
| 30°   | 1541.8 | 1541.8 | 1378.8 | 1378.8 | 1374.8 |
| 32.5° | 1511.6 | 1477.4 | 1340.6 | 1342.6 | 1342.6 |
| 35°   | 1469.4 | 1413.0 | 1298.3 | 1308.3 | 1308.3 |
| 37.5° | 1429.1 | 1334.5 | 1256.0 | 1272.1 | 1274.1 |
| 40°   | 1388.9 | 1274.1 | 1215.8 | 1233.9 | 1008.4 |
| 42.5° | 1332.5 | 1207.7 | 1173.5 | 950.1  | 718.6  |
| 45°   | 1288.2 | 1145.3 | 1131.2 | 690.4  | 235.5  |
| 47.5° | 1237.9 | 1084.9 | 1086.9 | 219.4  | 217.4  |
| 50°   | 1175.5 | 1022.5 | 851.4  | 207.3  | 211.3  |
| 52.5° | 1129.2 | 966.2  | 599.8  | 201.3  | 203.3  |
| 55°   | 1064.8 | 903.8  | 203.3  | 193.2  | 191.2  |
| 57.5° | 1004.4 | 845.4  | 189.2  | 179.1  | 171.1  |
| 60°   | 936.0  | 783.0  | 179.1  | 159.0  | 153.0  |
| 62.5° | 865.5  | 720.6  | 165.1  | 140.9  | 136.9  |
| 65°   | 793.1  | 569.6  | 144.9  | 124.8  | 122.8  |
| 67.5° | 716.6  | 374.4  | 122.8  | 110.7  | 108.7  |
| 70°   | 632.0  | 146.9  | 106.7  | 96.6   | 92.6   |
| 72.5° | 543.5  | 126.8  | 90.6   | 82.5   | 78.5   |
| 75°   | 446.9  | 104.7  | 74.5   | 66.4   | 64.4   |
| 77.5° | 356.3  | 78.5   | 60.4   | 52.3   | 50.3   |
| 80°   | 265.7  | 58.4   | 46.3   | 40.3   | 38.2   |
| 82.5° | 181.2  | 42.3   | 34.2   | 28.2   | 26.2   |
| 85°   | 94.6   | 28.2   | 24.2   | 18.1   | 16.1   |
| 87.5° | 36.2   | 18.1   | 14.1   | 8.1    | 8.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)