

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: P218194

Luminaire Tested: **4SNLED-LD5-34SL-LN-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218194  
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: 4SNLED-LD5-34SL-LN-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3821.0 lumens  
Efficiency: N/A  
Efficacy: 153.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.04 / 1.17  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')  
CIE Type: Direct

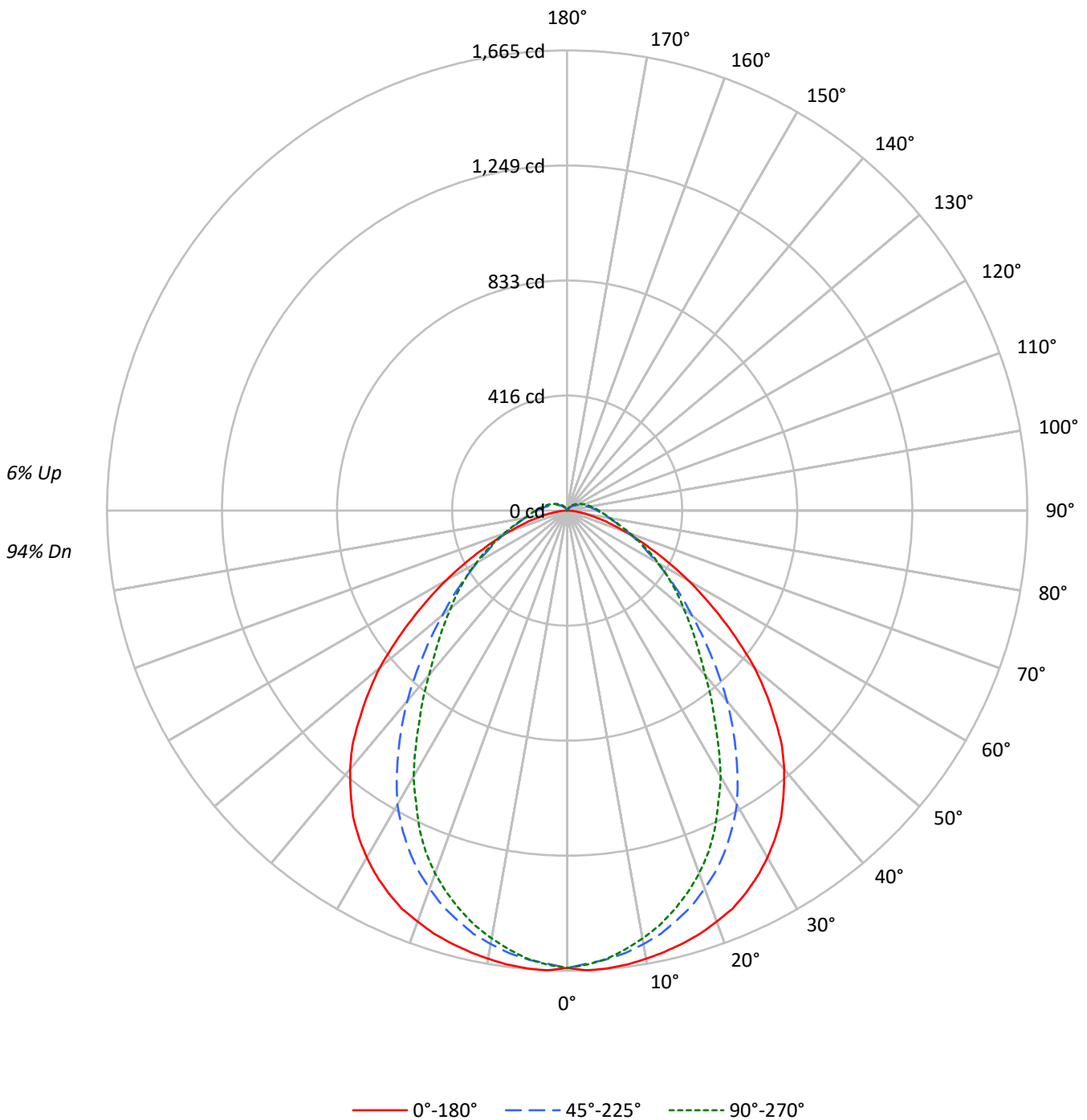
Input Watts (W): 24.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 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°  | 26665 | 26665 | 26665 |
| 5°  | 26798 | 24778 | 24224 |
| 10° | 26747 | 23060 | 21869 |
| 15° | 26736 | 21372 | 19679 |
| 20° | 26727 | 19682 | 17564 |
| 25° | 26648 | 17929 | 15354 |
| 30° | 26333 | 16031 | 13108 |
| 35° | 25817 | 13820 | 10784 |
| 40° | 24835 | 11698 | 8888  |
| 45° | 23207 | 9616  | 7455  |
| 50° | 21153 | 7847  | 6286  |
| 55° | 18201 | 6477  | 5357  |
| 60° | 15246 | 5302  | 4488  |
| 65° | 12119 | 4403  | 3710  |
| 70° | 9446  | 3700  | 3063  |
| 75° | 7159  | 3142  | 2543  |
| 80° | 4982  | 2778  | 2184  |
| 85° | 3029  | 2528  | 1977  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 155.6  | 4.1       |
| 10°-20°   | 436.6  | 11.4      |
| 20°-30°   | 632.3  | 16.5      |
| 30°-40°   | 688.1  | 18.0      |
| 40°-50°   | 611.1  | 16.0      |
| 50°-60°   | 465.2  | 12.2      |
| 60°-70°   | 308.9  | 8.1       |
| 70°-80°   | 188.2  | 4.9       |
| 80°-90°   | 116.6  | 3.1       |
| 90°-100°  | 79.7   | 2.1       |
| 100°-110° | 55.9   | 1.5       |
| 110°-120° | 38.1   | 1.0       |
| 120°-130° | 24.2   | 0.6       |
| 130°-140° | 13.7   | 0.4       |
| 140°-150° | 6.4    | 0.2       |
| 150°-160° | 0.4    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1224.4 | 32.0      |
| 0°-40°    | 1912.6 | 50.1      |
| 0°-60°    | 2988.9 | 78.2      |
| 0°-90°    | 3602.6 | 94.3      |
| 90°-120°  | 173.6  | 4.5       |
| 90°-150°  | 218.0  | 5.7       |
| 90°-180°  | 218.0  | 5.7       |
| 0°-180°   | 3821.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1655 | 1655  | 1655 | 1655  | 1655 |      |
| 5°   | 1663 | 1653  | 1631 | 1639  | 1629 | 158  |
| 15°  | 1621 | 1592  | 1534 | 1516  | 1496 | 458  |
| 25°  | 1528 | 1460  | 1355 | 1300  | 1266 | 704  |
| 35°  | 1351 | 1230  | 1065 | 972   | 932  | 841  |
| 45°  | 1061 | 902   | 733  | 670   | 654  | 817  |
| 55°  | 686  | 558   | 473  | 465   | 463  | 616  |
| 65°  | 346  | 298   | 298  | 310   | 306  | 349  |
| 75°  | 133  | 151   | 189  | 199   | 193  | 144  |
| 85°  | 24   | 76    | 129  | 137   | 133  | 29   |
| 90°  | 0    | 56    | 109  | 119   | 115  | 2    |
| 95°  | 0    | 44    | 93   | 103   | 101  | 0    |
| 105° | 0    | 28    | 66   | 76    | 76   | 0    |
| 115° | 0    | 18    | 48   | 58    | 56   | 0    |
| 125° | 0    | 12    | 32   | 40    | 40   | 0    |
| 135° | 0    | 8     | 22   | 28    | 28   | 0    |
| 145° | 0    | 4     | 12   | 16    | 16   | 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: P218194

CATALOG NUMBER: 4SNLED-LD5-34SL-LN-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1654.8 | 1654.8 | 1654.8 | 1654.8 | 1654.8 |
| 2.5°   | 1664.8 | 1656.8 | 1640.7 | 1650.8 | 1644.7 |
| 5°     | 1662.8 | 1652.8 | 1630.6 | 1638.7 | 1628.6 |
| 7.5°   | 1656.8 | 1644.7 | 1614.5 | 1618.5 | 1602.4 |
| 10°    | 1646.7 | 1630.6 | 1592.4 | 1588.3 | 1572.2 |
| 12.5°  | 1634.7 | 1614.5 | 1568.2 | 1554.1 | 1538.0 |
| 15°    | 1620.6 | 1592.4 | 1534.0 | 1515.9 | 1495.7 |
| 17.5°  | 1604.5 | 1566.2 | 1499.8 | 1471.6 | 1449.4 |
| 20°    | 1582.3 | 1536.0 | 1455.5 | 1421.3 | 1397.1 |
| 22.5°  | 1560.2 | 1499.8 | 1409.2 | 1362.9 | 1336.7 |
| 25°    | 1528.0 | 1459.5 | 1354.8 | 1300.5 | 1266.3 |
| 27.5°  | 1491.7 | 1413.2 | 1294.4 | 1224.0 | 1185.7 |
| 30°    | 1449.4 | 1358.9 | 1228.0 | 1145.5 | 1111.2 |
| 32.5°  | 1403.1 | 1298.5 | 1147.5 | 1058.9 | 1020.7 |
| 35°    | 1350.8 | 1230.0 | 1064.9 | 972.3  | 932.1  |
| 37.5°  | 1286.4 | 1155.5 | 982.4  | 887.8  | 855.6  |
| 40°    | 1222.0 | 1077.0 | 899.9  | 811.3  | 777.1  |
| 42.5°  | 1149.5 | 990.5  | 815.3  | 734.8  | 710.6  |
| 45°    | 1060.9 | 901.9  | 732.8  | 670.4  | 654.3  |
| 47.5°  | 974.3  | 811.3  | 658.3  | 614.0  | 599.9  |
| 50°    | 885.8  | 722.7  | 587.8  | 559.6  | 549.6  |
| 52.5°  | 783.1  | 636.1  | 529.4  | 511.3  | 507.3  |
| 55°    | 686.5  | 557.6  | 473.1  | 465.0  | 463.0  |
| 57.5°  | 593.9  | 483.1  | 420.7  | 426.8  | 422.8  |
| 60°    | 507.3  | 414.7  | 374.4  | 382.5  | 380.5  |
| 62.5°  | 422.8  | 352.3  | 332.2  | 348.3  | 344.2  |
| 65°    | 346.3  | 297.9  | 297.9  | 310.0  | 306.0  |
| 67.5°  | 279.8  | 253.7  | 265.7  | 277.8  | 273.8  |
| 70°    | 223.5  | 213.4  | 237.5  | 247.6  | 243.6  |
| 72.5°  | 173.1  | 179.2  | 209.4  | 221.4  | 215.4  |
| 75°    | 132.9  | 151.0  | 189.2  | 199.3  | 193.3  |
| 77.5°  | 94.6   | 126.8  | 171.1  | 179.2  | 173.1  |
| 80°    | 66.4   | 106.7  | 155.0  | 163.1  | 157.0  |
| 82.5°  | 42.3   | 90.6   | 140.9  | 149.0  | 144.9  |
| 85°    | 24.2   | 76.5   | 128.8  | 136.9  | 132.9  |
| 87.5°  | 12.1   | 66.4   | 116.8  | 126.8  | 122.8  |
| 90°    | 0.0    | 56.4   | 108.7  | 118.8  | 114.7  |
| 92.5°  | 0.0    | 50.3   | 100.7  | 110.7  | 106.7  |
| 95°    | 0.0    | 44.3   | 92.6   | 102.7  | 100.7  |
| 97.5°  | 0.0    | 40.3   | 86.6   | 96.6   | 92.6   |
| 100°   | 0.0    | 34.2   | 78.5   | 88.6   | 86.6   |
| 102.5° | 0.0    | 32.2   | 72.5   | 82.5   | 80.5   |
| 105°   | 0.0    | 28.2   | 66.4   | 76.5   | 76.5   |
| 107.5° | 0.0    | 26.2   | 62.4   | 72.5   | 70.5   |
| 110°   | 0.0    | 22.1   | 56.4   | 66.4   | 66.4   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 20.1  | 52.3 | 62.4  | 60.4 |
| 115°   | 0.0 | 18.1  | 48.3 | 58.4  | 56.4 |
| 117.5° | 0.0 | 18.1  | 44.3 | 52.3  | 52.3 |
| 120°   | 0.0 | 16.1  | 40.3 | 48.3  | 48.3 |
| 122.5° | 0.0 | 14.1  | 36.2 | 44.3  | 44.3 |
| 125°   | 0.0 | 12.1  | 32.2 | 40.3  | 40.3 |
| 127.5° | 0.0 | 12.1  | 30.2 | 38.2  | 38.2 |
| 130°   | 0.0 | 10.1  | 26.2 | 34.2  | 34.2 |
| 132.5° | 0.0 | 8.1   | 24.2 | 30.2  | 30.2 |
| 135°   | 0.0 | 8.1   | 22.1 | 28.2  | 28.2 |
| 137.5° | 0.0 | 6.0   | 18.1 | 24.2  | 24.2 |
| 140°   | 0.0 | 6.0   | 16.1 | 22.1  | 22.1 |
| 142.5° | 0.0 | 4.0   | 14.1 | 20.1  | 18.1 |
| 145°   | 0.0 | 4.0   | 12.1 | 16.1  | 16.1 |
| 147.5° | 0.0 | 2.0   | 10.1 | 14.1  | 14.1 |
| 150°   | 0.0 | 2.0   | 8.1  | 12.1  | 10.1 |
| 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)