

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: P218196

Luminaire Tested: **4SNLED-LD5-37SL-LN-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218196
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-LD5-37SL-LN-UNV-L835-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3800.0 lumens
Efficiency: N/A
Efficacy: 137.2 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

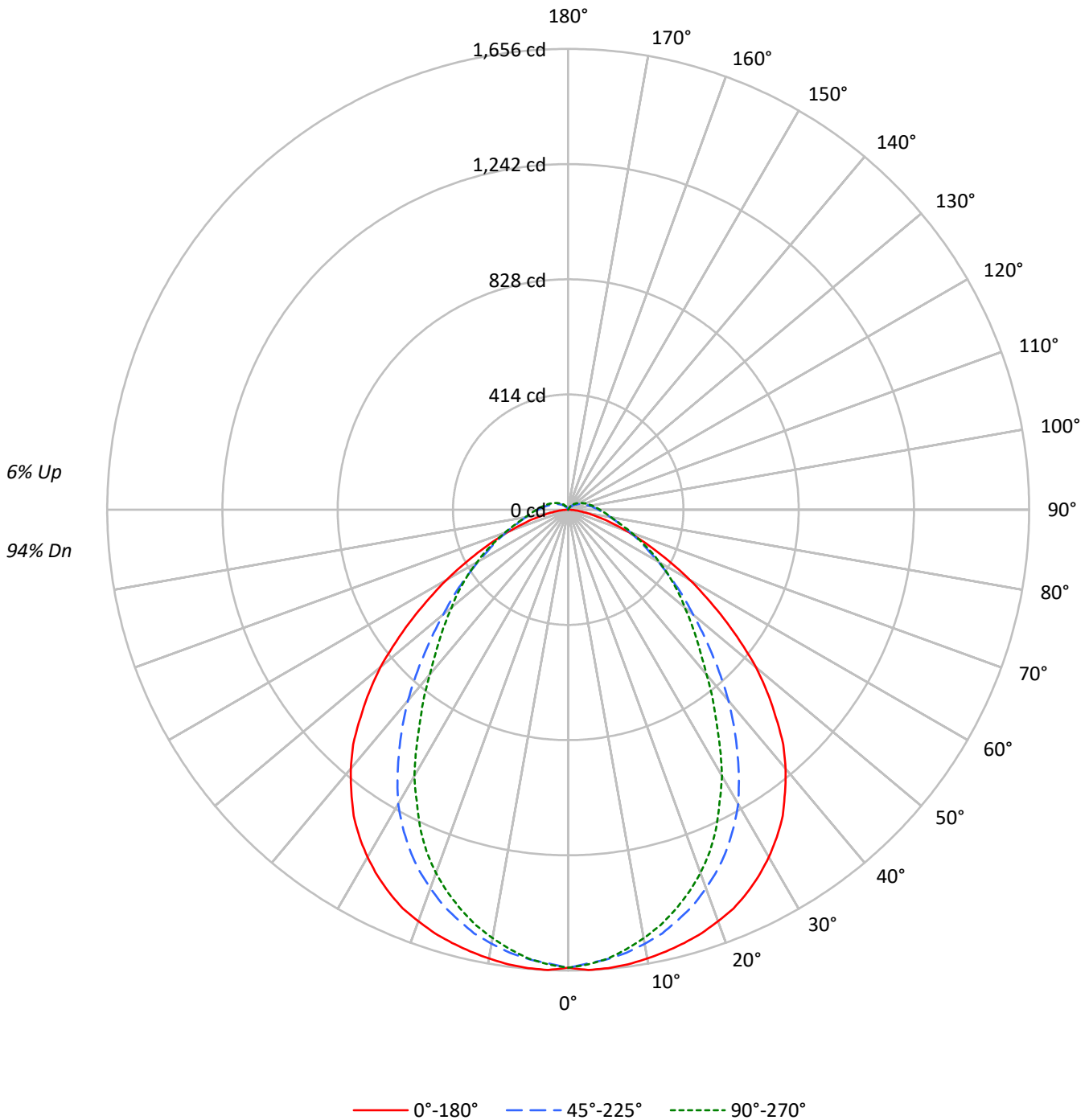
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P218196

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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° | 26518 | 26518 | 26518 |
| 5° | 26652 | 24643 | 24091 |
| 10° | 26601 | 22933 | 21749 |
| 15° | 26589 | 21255 | 19571 |
| 20° | 26580 | 19574 | 17467 |
| 25° | 26502 | 17831 | 15269 |
| 30° | 26190 | 15943 | 13036 |
| 35° | 25676 | 13744 | 10725 |
| 40° | 24696 | 11633 | 8839 |
| 45° | 23080 | 9562 | 7414 |
| 50° | 21036 | 7804 | 6252 |
| 55° | 18100 | 6441 | 5328 |
| 60° | 15162 | 5273 | 4464 |
| 65° | 12052 | 4379 | 3690 |
| 70° | 9391 | 3680 | 3045 |
| 75° | 7116 | 3125 | 2529 |
| 80° | 4959 | 2764 | 2173 |
| 85° | 3004 | 2514 | 1965 |



TEST NUMBER: P218196

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L835-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 154.7 | 4.1 |
| 10°-20° | 434.2 | 11.4 |
| 20°-30° | 628.8 | 16.5 |
| 30°-40° | 684.4 | 18.0 |
| 40°-50° | 607.8 | 16.0 |
| 50°-60° | 462.6 | 12.2 |
| 60°-70° | 307.2 | 8.1 |
| 70°-80° | 187.2 | 4.9 |
| 80°-90° | 116.0 | 3.1 |
| 90°-100° | 79.2 | 2.1 |
| 100°-110° | 55.6 | 1.5 |
| 110°-120° | 37.9 | 1.0 |
| 120°-130° | 24.0 | 0.6 |
| 130°-140° | 13.6 | 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° | 1217.7 | 32.0 |
| 0°-40° | 1902.1 | 50.1 |
| 0°-60° | 2972.5 | 78.2 |
| 0°-90° | 3582.8 | 94.3 |
| 90°-120° | 172.7 | 4.5 |
| 90°-150° | 216.7 | 5.7 |
| 90°-180° | 217.0 | 5.7 |
| 0°-180° | 3800.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1646 | 1646 | 1646 | 1646 | 1646 | |
| 5° | 1654 | 1644 | 1622 | 1630 | 1620 | 157 |
| 15° | 1612 | 1584 | 1526 | 1508 | 1488 | 455 |
| 25° | 1520 | 1452 | 1347 | 1293 | 1259 | 700 |
| 35° | 1343 | 1223 | 1059 | 967 | 927 | 837 |
| 45° | 1055 | 897 | 729 | 667 | 651 | 813 |
| 55° | 683 | 555 | 470 | 462 | 460 | 612 |
| 65° | 344 | 296 | 296 | 308 | 304 | 347 |
| 75° | 132 | 150 | 188 | 198 | 192 | 143 |
| 85° | 24 | 76 | 128 | 136 | 132 | 29 |
| 90° | 0 | 56 | 108 | 118 | 114 | 2 |
| 95° | 0 | 44 | 92 | 102 | 100 | 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: P218196

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1645.7 | 1645.7 | 1645.7 | 1645.7 | 1645.7 |
| 2.5° | 1655.7 | 1647.7 | 1631.7 | 1641.7 | 1635.7 |
| 5° | 1653.7 | 1643.7 | 1621.7 | 1629.7 | 1619.7 |
| 7.5° | 1647.7 | 1635.7 | 1605.6 | 1609.7 | 1593.6 |
| 10° | 1637.7 | 1621.7 | 1583.6 | 1579.6 | 1563.6 |
| 12.5° | 1625.7 | 1605.6 | 1559.6 | 1545.6 | 1529.6 |
| 15° | 1611.7 | 1583.6 | 1525.6 | 1507.5 | 1487.5 |
| 17.5° | 1595.6 | 1557.6 | 1491.5 | 1463.5 | 1441.5 |
| 20° | 1573.6 | 1527.6 | 1447.5 | 1413.4 | 1389.4 |
| 22.5° | 1551.6 | 1491.5 | 1401.4 | 1355.4 | 1329.4 |
| 25° | 1519.6 | 1451.5 | 1347.4 | 1293.3 | 1259.3 |
| 27.5° | 1483.5 | 1405.4 | 1287.3 | 1217.2 | 1179.2 |
| 30° | 1441.5 | 1351.4 | 1221.3 | 1139.2 | 1105.1 |
| 32.5° | 1395.4 | 1291.3 | 1141.2 | 1053.1 | 1015.0 |
| 35° | 1343.4 | 1223.3 | 1059.1 | 967.0 | 927.0 |
| 37.5° | 1279.3 | 1149.2 | 977.0 | 882.9 | 850.9 |
| 40° | 1215.2 | 1071.1 | 894.9 | 806.8 | 772.8 |
| 42.5° | 1143.2 | 985.0 | 810.8 | 730.7 | 706.7 |
| 45° | 1055.1 | 896.9 | 728.7 | 666.7 | 650.7 |
| 47.5° | 969.0 | 806.8 | 654.7 | 610.6 | 596.6 |
| 50° | 880.9 | 718.7 | 584.6 | 556.6 | 546.6 |
| 52.5° | 778.8 | 632.6 | 526.5 | 508.5 | 504.5 |
| 55° | 682.7 | 554.6 | 470.5 | 462.5 | 460.5 |
| 57.5° | 590.6 | 480.5 | 418.4 | 424.4 | 420.4 |
| 60° | 504.5 | 412.4 | 372.4 | 380.4 | 378.4 |
| 62.5° | 420.4 | 350.4 | 330.3 | 346.4 | 342.4 |
| 65° | 344.4 | 296.3 | 296.3 | 308.3 | 304.3 |
| 67.5° | 278.3 | 252.3 | 264.3 | 276.3 | 272.3 |
| 70° | 222.2 | 212.2 | 236.2 | 246.3 | 242.2 |
| 72.5° | 172.2 | 178.2 | 208.2 | 220.2 | 214.2 |
| 75° | 132.1 | 150.2 | 188.2 | 198.2 | 192.2 |
| 77.5° | 94.1 | 126.1 | 170.2 | 178.2 | 172.2 |
| 80° | 66.1 | 106.1 | 154.2 | 162.2 | 156.2 |
| 82.5° | 42.0 | 90.1 | 140.1 | 148.2 | 144.1 |
| 85° | 24.0 | 76.1 | 128.1 | 136.1 | 132.1 |
| 87.5° | 12.0 | 66.1 | 116.1 | 126.1 | 122.1 |
| 90° | 0.0 | 56.1 | 108.1 | 118.1 | 114.1 |
| 92.5° | 0.0 | 50.1 | 100.1 | 110.1 | 106.1 |
| 95° | 0.0 | 44.0 | 92.1 | 102.1 | 100.1 |
| 97.5° | 0.0 | 40.0 | 86.1 | 96.1 | 92.1 |
| 100° | 0.0 | 34.0 | 78.1 | 88.1 | 86.1 |
| 102.5° | 0.0 | 32.0 | 72.1 | 82.1 | 80.1 |
| 105° | 0.0 | 28.0 | 66.1 | 76.1 | 76.1 |
| 107.5° | 0.0 | 26.0 | 62.1 | 72.1 | 70.1 |
| 110° | 0.0 | 22.0 | 56.1 | 66.1 | 66.1 |



TEST NUMBER: P218196

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 20.0 | 52.1 | 62.1 | 60.1 |
| 115° | 0.0 | 18.0 | 48.0 | 58.1 | 56.1 |
| 117.5° | 0.0 | 18.0 | 44.0 | 52.1 | 52.1 |
| 120° | 0.0 | 16.0 | 40.0 | 48.0 | 48.0 |
| 122.5° | 0.0 | 14.0 | 36.0 | 44.0 | 44.0 |
| 125° | 0.0 | 12.0 | 32.0 | 40.0 | 40.0 |
| 127.5° | 0.0 | 12.0 | 30.0 | 38.0 | 38.0 |
| 130° | 0.0 | 10.0 | 26.0 | 34.0 | 34.0 |
| 132.5° | 0.0 | 8.0 | 24.0 | 30.0 | 30.0 |
| 135° | 0.0 | 8.0 | 22.0 | 28.0 | 28.0 |
| 137.5° | 0.0 | 6.0 | 18.0 | 24.0 | 24.0 |
| 140° | 0.0 | 6.0 | 16.0 | 22.0 | 22.0 |
| 142.5° | 0.0 | 4.0 | 14.0 | 20.0 | 18.0 |
| 145° | 0.0 | 4.0 | 12.0 | 16.0 | 16.0 |
| 147.5° | 0.0 | 2.0 | 10.0 | 14.0 | 14.0 |
| 150° | 0.0 | 2.0 | 8.0 | 12.0 | 10.0 |
| 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)