

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: P218365

Luminaire Tested: **8TSNLED-LD5-54SL-LW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218365  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35687)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8TSNLED-LD5-54SL-LW-UNV-L840-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5829.0 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

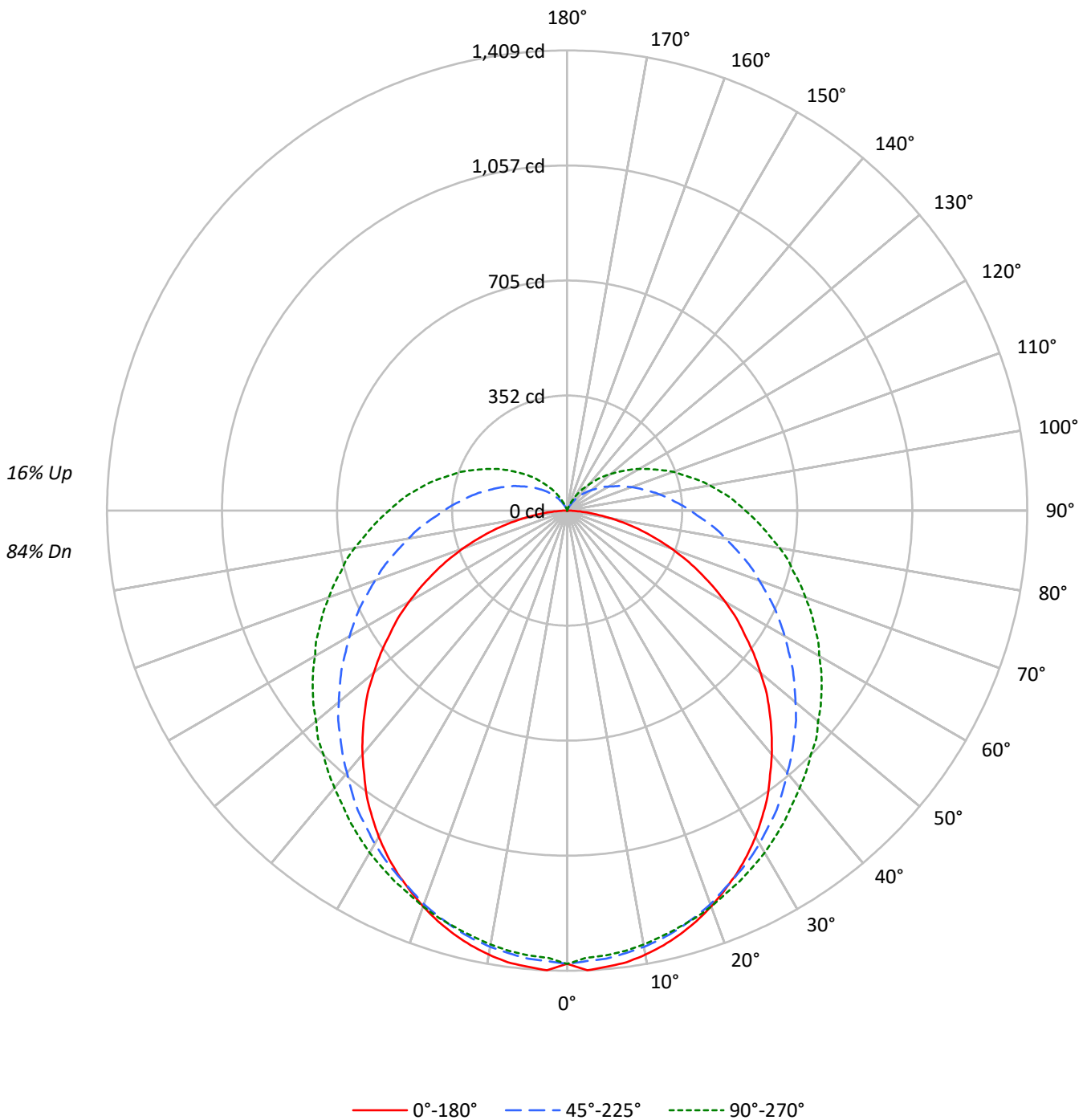
Input Watts (W): 44.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     | 20 |    |    | 20 |    |    | 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   | 115 | 115 | 115 | 115 | 111 | 111 | 111 | 111 | 102 | 102 | 102 | 95 | 95 | 95 | 88 | 88 | 88 | 84 |
| 1   | 102 | 96  | 91  | 86  | 98  | 93  | 88  | 83  | 85  | 81  | 78  | 79 | 76 | 73 | 73 | 70 | 68 | 65 |
| 2   | 92  | 83  | 75  | 68  | 88  | 79  | 72  | 66  | 73  | 67  | 62  | 67 | 63 | 58 | 62 | 58 | 55 | 52 |
| 3   | 83  | 72  | 63  | 56  | 79  | 69  | 61  | 54  | 64  | 57  | 51  | 59 | 53 | 48 | 54 | 49 | 45 | 42 |
| 4   | 76  | 63  | 54  | 46  | 72  | 61  | 52  | 45  | 56  | 49  | 43  | 52 | 46 | 41 | 48 | 43 | 38 | 36 |
| 5   | 70  | 56  | 46  | 39  | 66  | 54  | 45  | 39  | 50  | 42  | 37  | 46 | 40 | 35 | 43 | 37 | 33 | 30 |
| 6   | 64  | 50  | 41  | 34  | 61  | 48  | 40  | 33  | 45  | 37  | 32  | 42 | 35 | 30 | 39 | 33 | 29 | 26 |
| 7   | 59  | 45  | 36  | 30  | 57  | 44  | 35  | 29  | 41  | 33  | 28  | 38 | 31 | 27 | 35 | 30 | 25 | 23 |
| 8   | 55  | 41  | 32  | 26  | 53  | 40  | 32  | 26  | 37  | 30  | 25  | 35 | 28 | 24 | 32 | 27 | 23 | 21 |
| 9   | 51  | 38  | 29  | 24  | 49  | 36  | 29  | 23  | 34  | 27  | 22  | 32 | 26 | 21 | 30 | 24 | 20 | 18 |
| 10  | 48  | 35  | 27  | 21  | 46  | 34  | 26  | 21  | 32  | 25  | 20  | 30 | 24 | 19 | 28 | 22 | 18 | 17 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11181 | 11181 | 11181 |
| 5°  | 11317 | 10478 | 10166 |
| 10° | 11255 | 9844  | 9385  |
| 15° | 11135 | 9260  | 8693  |
| 20° | 10977 | 8711  | 8109  |
| 25° | 10803 | 8184  | 7587  |
| 30° | 10604 | 7736  | 7134  |
| 35° | 10370 | 7309  | 6714  |
| 40° | 10081 | 6869  | 6338  |
| 45° | 9794  | 6500  | 6014  |
| 50° | 9449  | 6148  | 5738  |
| 55° | 9060  | 5827  | 5501  |
| 60° | 8698  | 5507  | 5257  |
| 65° | 8166  | 5231  | 5065  |
| 70° | 7555  | 4941  | 4879  |
| 75° | 6764  | 4713  | 4714  |
| 80° | 5509  | 4490  | 4595  |
| 85° | 3911  | 4332  | 4472  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 131.4  | 2.3       |
| 10°-20°   | 375.8  | 6.4       |
| 20°-30°   | 571.3  | 9.8       |
| 30°-40°   | 699.2  | 12.0      |
| 40°-50°   | 754.8  | 12.9      |
| 50°-60°   | 741.1  | 12.7      |
| 60°-70°   | 667.4  | 11.5      |
| 70°-80°   | 552.7  | 9.5       |
| 80°-90°   | 425.1  | 7.3       |
| 90°-100°  | 320.4  | 5.5       |
| 100°-110° | 235.8  | 4.0       |
| 110°-120° | 162.7  | 2.8       |
| 120°-130° | 103.2  | 1.8       |
| 130°-140° | 57.1   | 1.0       |
| 140°-150° | 24.7   | 0.4       |
| 150°-160° | 6.2    | 0.1       |
| 160°-170° | 0.2    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1078.6 | 18.5      |
| 0°-40°    | 1777.7 | 30.5      |
| 0°-60°    | 3273.6 | 56.2      |
| 0°-90°    | 4918.8 | 84.4      |
| 90°-120°  | 718.9  | 12.3      |
| 90°-150°  | 903.9  | 15.5      |
| 90°-180°  | 910.0  | 15.6      |
| 0°-180°   | 5829.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1388 | 1388  | 1388 | 1388  | 1388 |      |
| 5°   | 1402 | 1395  | 1377 | 1377  | 1367 | 133  |
| 15°  | 1342 | 1339  | 1325 | 1332  | 1321 | 378  |
| 25°  | 1227 | 1227  | 1230 | 1255  | 1252 | 565  |
| 35°  | 1070 | 1080  | 1119 | 1154  | 1161 | 668  |
| 45°  | 878  | 916   | 982  | 1042  | 1056 | 677  |
| 55°  | 664  | 738   | 842  | 926   | 951  | 596  |
| 65°  | 448  | 549   | 699  | 804   | 836  | 444  |
| 75°  | 234  | 374   | 559  | 678   | 717  | 248  |
| 85°  | 52   | 231   | 434  | 563   | 601  | 60   |
| 90°  | 0    | 178   | 378  | 507   | 545  | 3    |
| 95°  | 4    | 140   | 329  | 454   | 496  | 1    |
| 105° | 0    | 87    | 245  | 357   | 392  | 0    |
| 115° | 0    | 56    | 178  | 269   | 297  | 0    |
| 125° | 0    | 35    | 122  | 192   | 213  | 0    |
| 135° | 0    | 21    | 77   | 126   | 140  | 0    |
| 145° | 0    | 7     | 38   | 70    | 77   | 0    |
| 155° | 0    | 4     | 10   | 21    | 24   | 0    |
| 165° | 0    | 0     | 0    | 0     | 0    | 0    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1387.8 | 1387.8 | 1387.8 | 1387.8 | 1387.8 |
| 2.5°   | 1408.8 | 1398.3 | 1380.8 | 1380.8 | 1370.4 |
| 5°     | 1401.8 | 1394.8 | 1377.4 | 1377.4 | 1366.9 |
| 7.5°   | 1394.8 | 1387.8 | 1366.9 | 1370.4 | 1359.9 |
| 10°    | 1380.8 | 1373.9 | 1356.4 | 1359.9 | 1349.4 |
| 12.5°  | 1363.4 | 1356.4 | 1342.4 | 1345.9 | 1335.4 |
| 15°    | 1342.4 | 1338.9 | 1324.9 | 1331.9 | 1321.4 |
| 17.5°  | 1317.9 | 1314.4 | 1303.9 | 1314.4 | 1307.4 |
| 20°    | 1290.0 | 1290.0 | 1283.0 | 1296.9 | 1290.0 |
| 22.5°  | 1258.5 | 1258.5 | 1255.0 | 1276.0 | 1269.0 |
| 25°    | 1227.0 | 1227.0 | 1230.5 | 1255.0 | 1251.5 |
| 27.5°  | 1192.1 | 1195.6 | 1206.1 | 1234.0 | 1230.5 |
| 30°    | 1153.6 | 1160.6 | 1178.1 | 1209.6 | 1209.6 |
| 32.5°  | 1111.7 | 1118.7 | 1146.6 | 1185.1 | 1185.1 |
| 35°    | 1069.7 | 1080.2 | 1118.7 | 1153.6 | 1160.6 |
| 37.5°  | 1020.8 | 1038.3 | 1083.7 | 1125.7 | 1132.6 |
| 40°    | 975.3  | 999.8  | 1048.7 | 1097.7 | 1108.2 |
| 42.5°  | 926.4  | 957.9  | 1017.3 | 1073.2 | 1083.7 |
| 45°    | 877.5  | 915.9  | 982.3  | 1041.8 | 1055.7 |
| 47.5°  | 828.5  | 870.5  | 950.9  | 1013.8 | 1034.8 |
| 50°    | 772.6  | 825.0  | 912.4  | 985.8  | 1003.3 |
| 52.5°  | 720.1  | 779.6  | 877.5  | 954.4  | 978.8  |
| 55°    | 664.2  | 737.6  | 842.5  | 926.4  | 950.9  |
| 57.5°  | 615.3  | 688.7  | 804.0  | 898.4  | 922.9  |
| 60°    | 559.3  | 639.7  | 769.1  | 863.5  | 891.4  |
| 62.5°  | 503.4  | 597.8  | 734.1  | 835.5  | 867.0  |
| 65°    | 447.5  | 548.8  | 699.2  | 804.0  | 835.5  |
| 67.5°  | 395.0  | 503.4  | 660.7  | 772.6  | 807.5  |
| 70°    | 339.1  | 458.0  | 625.8  | 741.1  | 776.1  |
| 72.5°  | 286.7  | 416.0  | 594.3  | 709.7  | 748.1  |
| 75°    | 234.2  | 374.1  | 559.3  | 678.2  | 716.6  |
| 77.5°  | 185.3  | 335.6  | 524.4  | 650.2  | 692.2  |
| 80°    | 132.8  | 297.1  | 492.9  | 618.8  | 660.7  |
| 82.5°  | 90.9   | 262.2  | 464.9  | 590.8  | 629.2  |
| 85°    | 52.4   | 230.7  | 433.5  | 562.8  | 601.3  |
| 87.5°  | 21.0   | 202.8  | 402.0  | 531.4  | 573.3  |
| 90°    | 0.0    | 178.3  | 377.5  | 506.9  | 545.3  |
| 92.5°  | 0.0    | 157.3  | 353.1  | 478.9  | 520.9  |
| 95°    | 3.5    | 139.8  | 328.6  | 454.5  | 496.4  |
| 97.5°  | 0.0    | 122.4  | 307.6  | 430.0  | 468.4  |
| 100°   | 0.0    | 111.9  | 286.7  | 405.5  | 444.0  |
| 102.5° | 0.0    | 97.9   | 265.7  | 381.0  | 419.5  |
| 105°   | 0.0    | 87.4   | 244.7  | 356.6  | 391.5  |
| 107.5° | 0.0    | 80.4   | 227.2  | 335.6  | 367.1  |
| 110°   | 0.0    | 69.9   | 209.7  | 314.6  | 346.1  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 62.9  | 192.3 | 290.2 | 321.6 |
| 115°   | 0.0 | 55.9  | 178.3 | 269.2 | 297.1 |
| 117.5° | 0.0 | 52.4  | 160.8 | 248.2 | 276.2 |
| 120°   | 0.0 | 45.4  | 146.8 | 230.7 | 255.2 |
| 122.5° | 0.0 | 41.9  | 136.3 | 209.7 | 234.2 |
| 125°   | 0.0 | 35.0  | 122.4 | 192.3 | 213.2 |
| 127.5° | 0.0 | 31.5  | 108.4 | 174.8 | 192.3 |
| 130°   | 0.0 | 28.0  | 97.9  | 157.3 | 174.8 |
| 132.5° | 0.0 | 24.5  | 87.4  | 139.8 | 157.3 |
| 135°   | 0.0 | 21.0  | 76.9  | 125.8 | 139.8 |
| 137.5° | 0.0 | 17.5  | 66.4  | 108.4 | 122.4 |
| 140°   | 0.0 | 14.0  | 55.9  | 94.4  | 104.9 |
| 142.5° | 0.0 | 10.5  | 48.9  | 80.4  | 90.9  |
| 145°   | 0.0 | 7.0   | 38.5  | 69.9  | 76.9  |
| 147.5° | 0.0 | 7.0   | 31.5  | 55.9  | 62.9  |
| 150°   | 0.0 | 3.5   | 21.0  | 45.4  | 48.9  |
| 152.5° | 0.0 | 3.5   | 17.5  | 35.0  | 35.0  |
| 155°   | 0.0 | 3.5   | 10.5  | 21.0  | 24.5  |
| 157.5° | 0.0 | 0.0   | 7.0   | 14.0  | 14.0  |
| 160°   | 0.0 | 0.0   | 3.5   | 7.0   | 10.5  |
| 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)