

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: P217954

Luminaire Tested: **4SNLED-LD5-36SL-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P217954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35691)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-36SL-UNV-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4026.0 lumens
Efficiency: N/A
Efficacy: 161.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')
CIE Type: Direct

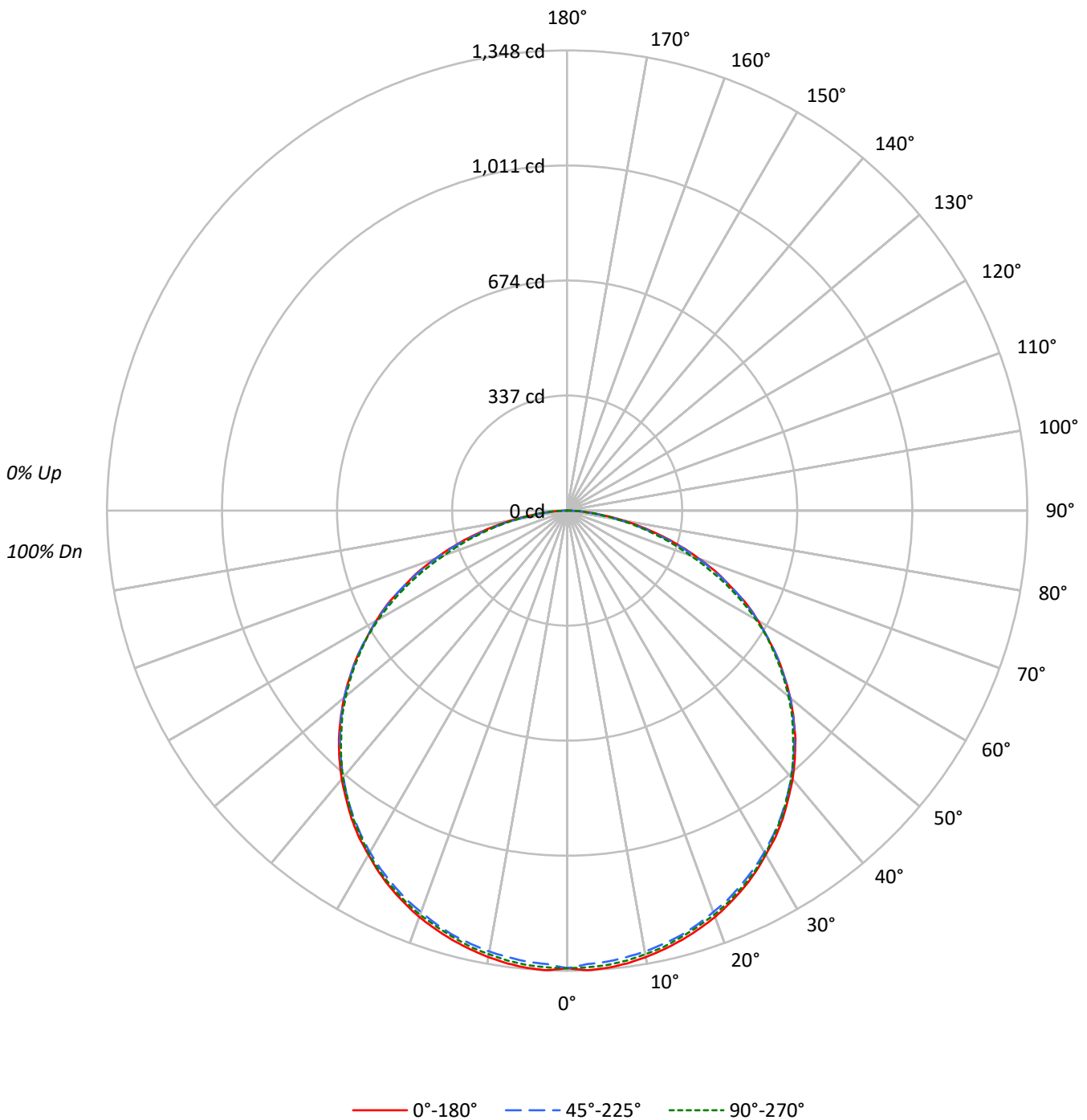
Input Watts (W): 24.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 109 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 87 | 85 | 83 |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 70 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 53 | 66 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 44 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 50 | 42 | 35 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 36 | 29 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 21605 | 21605 | 21605 |
| 5° | 21676 | 20163 | 19880 |
| 10° | 21575 | 18994 | 18359 |
| 15° | 21476 | 17943 | 17018 |
| 20° | 21401 | 16926 | 15842 |
| 25° | 21296 | 15994 | 14738 |
| 30° | 21148 | 15086 | 13698 |
| 35° | 21048 | 14184 | 12678 |
| 40° | 20882 | 13267 | 11689 |
| 45° | 20680 | 12350 | 10661 |
| 50° | 20382 | 11375 | 9682 |
| 55° | 19972 | 10313 | 8635 |
| 60° | 19415 | 9148 | 7539 |
| 65° | 18565 | 7862 | 6247 |
| 70° | 17358 | 6357 | 4831 |
| 75° | 15524 | 4578 | 3463 |
| 80° | 12432 | 2721 | 2150 |
| 85° | 7672 | 1176 | 870 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 127.1 | 3.2 |
| 10°-20° | 365.8 | 9.1 |
| 20°-30° | 560.5 | 13.9 |
| 30°-40° | 686.0 | 17.0 |
| 40°-50° | 726.0 | 18.0 |
| 50°-60° | 671.4 | 16.7 |
| 60°-70° | 521.4 | 12.9 |
| 70°-80° | 293.7 | 7.3 |
| 80°-90° | 74.3 | 1.8 |
| 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° | 1053.3 | 26.2 |
| 0°-40° | 1739.3 | 43.2 |
| 0°-60° | 3136.7 | 77.9 |
| 0°-90° | 4026.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4026.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1341 | 1341 | 1341 | 1341 | 1341 | |
| 5° | 1345 | 1339 | 1327 | 1339 | 1337 | 128 |
| 15° | 1302 | 1298 | 1288 | 1299 | 1294 | 368 |
| 25° | 1221 | 1217 | 1209 | 1218 | 1216 | 563 |
| 35° | 1101 | 1097 | 1093 | 1096 | 1096 | 689 |
| 45° | 945 | 944 | 941 | 940 | 936 | 729 |
| 55° | 753 | 756 | 753 | 750 | 746 | 672 |
| 65° | 530 | 535 | 532 | 525 | 515 | 526 |
| 75° | 288 | 288 | 276 | 269 | 263 | 304 |
| 85° | 61 | 61 | 60 | 60 | 58 | 76 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P217954

CATALOG NUMBER: 4SNLED-LD5-36SL-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1340.8 | 1340.8 | 1340.8 | 1340.8 | 1340.8 |
| 2.5° | 1347.8 | 1342.2 | 1329.7 | 1342.2 | 1339.4 |
| 5° | 1345.0 | 1339.4 | 1326.9 | 1339.4 | 1336.6 |
| 7.5° | 1338.0 | 1333.9 | 1319.9 | 1332.5 | 1329.7 |
| 10° | 1328.3 | 1324.1 | 1311.6 | 1324.1 | 1319.9 |
| 12.5° | 1315.8 | 1311.6 | 1300.4 | 1311.6 | 1308.8 |
| 15° | 1301.8 | 1297.7 | 1287.9 | 1299.1 | 1293.5 |
| 17.5° | 1285.1 | 1282.3 | 1271.2 | 1282.3 | 1276.8 |
| 20° | 1267.0 | 1261.5 | 1251.7 | 1262.9 | 1260.1 |
| 22.5° | 1244.8 | 1242.0 | 1232.2 | 1242.0 | 1239.2 |
| 25° | 1221.1 | 1216.9 | 1208.6 | 1218.3 | 1215.5 |
| 27.5° | 1194.6 | 1191.8 | 1183.5 | 1190.5 | 1190.5 |
| 30° | 1164.0 | 1162.6 | 1155.6 | 1162.6 | 1161.2 |
| 32.5° | 1134.8 | 1132.0 | 1125.0 | 1130.6 | 1127.8 |
| 35° | 1101.3 | 1097.2 | 1093.0 | 1095.8 | 1095.8 |
| 37.5° | 1063.8 | 1062.4 | 1058.2 | 1062.4 | 1058.2 |
| 40° | 1027.5 | 1024.8 | 1020.6 | 1022.0 | 1022.0 |
| 42.5° | 987.2 | 985.8 | 981.6 | 981.6 | 980.2 |
| 45° | 945.4 | 944.0 | 941.2 | 939.8 | 935.7 |
| 47.5° | 899.5 | 898.1 | 898.1 | 896.7 | 893.9 |
| 50° | 853.5 | 853.5 | 852.1 | 847.9 | 846.5 |
| 52.5° | 803.4 | 806.2 | 802.0 | 799.2 | 797.8 |
| 55° | 753.3 | 756.0 | 753.3 | 750.5 | 746.3 |
| 57.5° | 697.6 | 703.1 | 699.0 | 697.6 | 696.2 |
| 60° | 646.0 | 648.8 | 646.0 | 641.9 | 639.1 |
| 62.5° | 593.1 | 593.1 | 589.0 | 586.2 | 577.8 |
| 65° | 530.5 | 534.7 | 531.9 | 524.9 | 515.2 |
| 67.5° | 474.8 | 472.0 | 469.2 | 460.9 | 449.7 |
| 70° | 410.7 | 412.1 | 408.0 | 395.4 | 384.3 |
| 72.5° | 349.5 | 352.3 | 343.9 | 327.2 | 324.4 |
| 75° | 288.2 | 288.2 | 275.7 | 268.7 | 263.2 |
| 77.5° | 225.6 | 227.0 | 210.2 | 208.9 | 207.5 |
| 80° | 165.7 | 168.5 | 151.8 | 155.9 | 154.6 |
| 82.5° | 112.8 | 110.0 | 103.0 | 103.0 | 101.6 |
| 85° | 61.3 | 61.3 | 59.9 | 59.9 | 58.5 |
| 87.5° | 23.7 | 25.1 | 27.8 | 30.6 | 29.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)