

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: P218357

Luminaire Tested: **4SNLED-LD5-58SL-LW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218357
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: 4SNLED-LD5-58SL-LW-UNV-L840-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6015.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

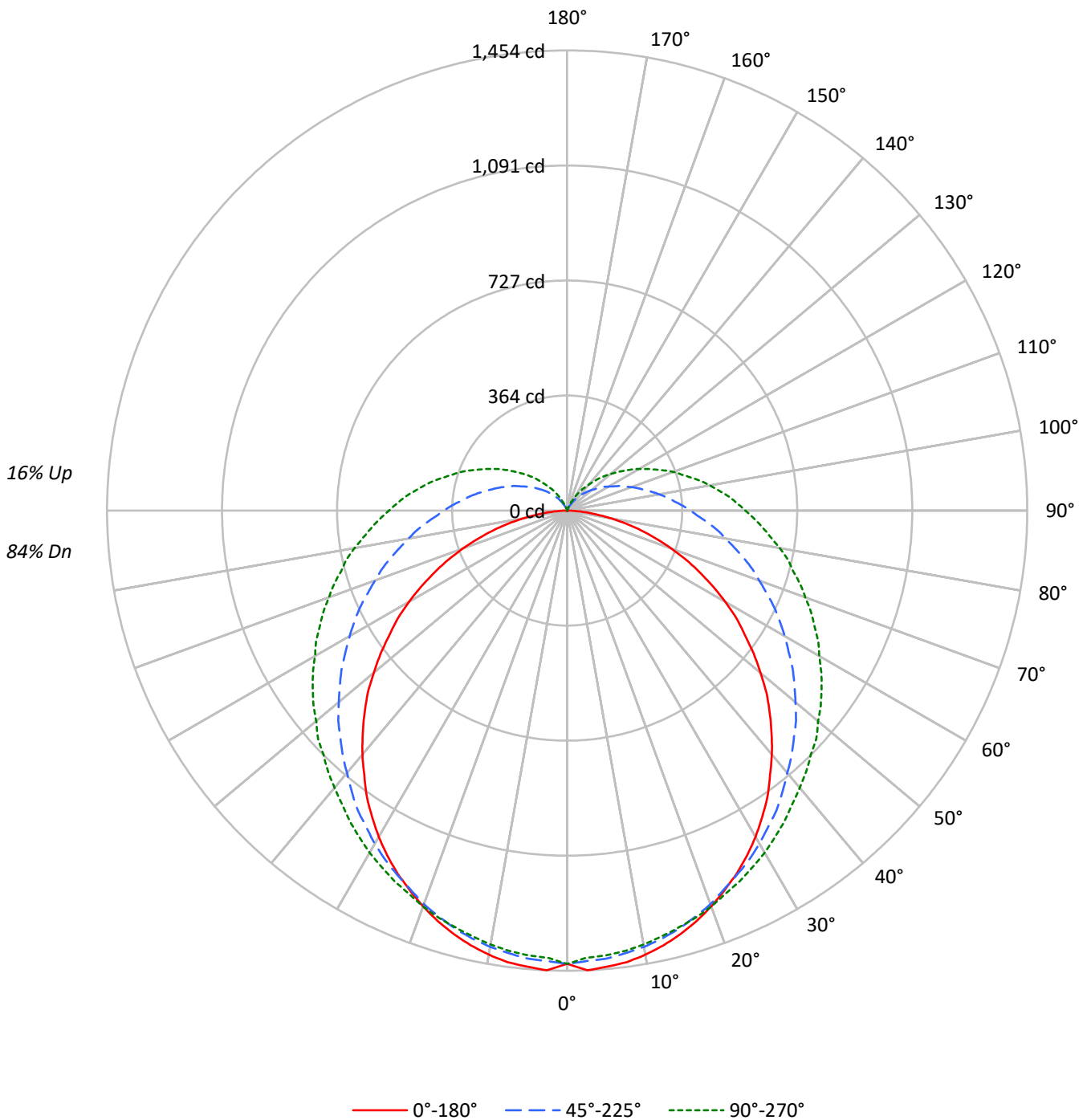
Input Watts (W): 54.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P218357

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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 | 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° | 23076 | 23076 | 23076 |
| 5° | 23314 | 21598 | 20980 |
| 10° | 23144 | 20269 | 19368 |
| 15° | 22852 | 19048 | 17941 |
| 20° | 22484 | 17902 | 16735 |
| 25° | 22082 | 16804 | 15659 |
| 30° | 21628 | 15870 | 14724 |
| 35° | 21098 | 14981 | 13856 |
| 40° | 20455 | 14068 | 13079 |
| 45° | 19808 | 13302 | 12413 |
| 50° | 19037 | 12568 | 11841 |
| 55° | 18172 | 11903 | 11352 |
| 60° | 17347 | 11238 | 10851 |
| 65° | 16157 | 10664 | 10454 |
| 70° | 14789 | 10060 | 10068 |
| 75° | 13019 | 9585 | 9729 |
| 80° | 10287 | 9115 | 9484 |
| 85° | 6771 | 8779 | 9229 |



TEST NUMBER: P218357

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 135.6 | 2.3 |
| 10°-20° | 387.8 | 6.4 |
| 20°-30° | 589.5 | 9.8 |
| 30°-40° | 721.5 | 12.0 |
| 40°-50° | 778.9 | 12.9 |
| 50°-60° | 764.7 | 12.7 |
| 60°-70° | 688.7 | 11.5 |
| 70°-80° | 570.3 | 9.5 |
| 80°-90° | 438.6 | 7.3 |
| 90°-100° | 330.7 | 5.5 |
| 100°-110° | 243.3 | 4.0 |
| 110°-120° | 167.9 | 2.8 |
| 120°-130° | 106.5 | 1.8 |
| 130°-140° | 58.9 | 1.0 |
| 140°-150° | 25.5 | 0.4 |
| 150°-160° | 6.4 | 0.1 |
| 160°-170° | 0.2 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1113.0 | 18.5 |
| 0°-40° | 1834.4 | 30.5 |
| 0°-60° | 3378.1 | 56.2 |
| 0°-90° | 5075.8 | 84.4 |
| 90°-120° | 741.8 | 12.3 |
| 90°-150° | 932.7 | 15.5 |
| 90°-180° | 939.0 | 15.6 |
| 0°-180° | 6015.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1432 | 1432 | 1432 | 1432 | 1432 | |
| 5° | 1447 | 1439 | 1421 | 1421 | 1410 | 137 |
| 15° | 1385 | 1382 | 1367 | 1374 | 1364 | 391 |
| 25° | 1266 | 1266 | 1270 | 1295 | 1291 | 583 |
| 35° | 1104 | 1115 | 1154 | 1190 | 1198 | 689 |
| 45° | 906 | 945 | 1014 | 1075 | 1089 | 698 |
| 55° | 685 | 761 | 869 | 956 | 981 | 615 |
| 65° | 462 | 566 | 722 | 830 | 862 | 458 |
| 75° | 242 | 386 | 577 | 700 | 740 | 256 |
| 85° | 54 | 238 | 447 | 581 | 620 | 62 |
| 90° | 0 | 184 | 390 | 523 | 563 | 3 |
| 95° | 4 | 144 | 339 | 469 | 512 | 1 |
| 105° | 0 | 90 | 252 | 368 | 404 | 0 |
| 115° | 0 | 58 | 184 | 278 | 307 | 0 |
| 125° | 0 | 36 | 126 | 198 | 220 | 0 |
| 135° | 0 | 22 | 79 | 130 | 144 | 0 |
| 145° | 0 | 7 | 40 | 72 | 79 | 0 |
| 155° | 0 | 4 | 11 | 22 | 25 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P218357

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1432.1 | 1432.1 | 1432.1 | 1432.1 | 1432.1 |
| 2.5° | 1453.8 | 1442.9 | 1424.9 | 1424.9 | 1414.1 |
| 5° | 1446.6 | 1439.3 | 1421.3 | 1421.3 | 1410.5 |
| 7.5° | 1439.3 | 1432.1 | 1410.5 | 1414.1 | 1403.3 |
| 10° | 1424.9 | 1417.7 | 1399.7 | 1403.3 | 1392.4 |
| 12.5° | 1406.9 | 1399.7 | 1385.2 | 1388.8 | 1378.0 |
| 15° | 1385.2 | 1381.6 | 1367.2 | 1374.4 | 1363.6 |
| 17.5° | 1360.0 | 1356.4 | 1345.5 | 1356.4 | 1349.2 |
| 20° | 1331.1 | 1331.1 | 1323.9 | 1338.3 | 1331.1 |
| 22.5° | 1298.7 | 1298.7 | 1295.0 | 1316.7 | 1309.5 |
| 25° | 1266.2 | 1266.2 | 1269.8 | 1295.0 | 1291.4 |
| 27.5° | 1230.1 | 1233.7 | 1244.5 | 1273.4 | 1269.8 |
| 30° | 1190.4 | 1197.6 | 1215.7 | 1248.2 | 1248.2 |
| 32.5° | 1147.1 | 1154.4 | 1183.2 | 1222.9 | 1222.9 |
| 35° | 1103.9 | 1114.7 | 1154.4 | 1190.4 | 1197.6 |
| 37.5° | 1053.4 | 1071.4 | 1118.3 | 1161.6 | 1168.8 |
| 40° | 1006.5 | 1031.7 | 1082.2 | 1132.7 | 1143.5 |
| 42.5° | 956.0 | 988.4 | 1049.7 | 1107.5 | 1118.3 |
| 45° | 905.5 | 945.1 | 1013.7 | 1075.0 | 1089.4 |
| 47.5° | 854.9 | 898.2 | 981.2 | 1046.1 | 1067.8 |
| 50° | 797.2 | 851.3 | 941.5 | 1017.3 | 1035.3 |
| 52.5° | 743.1 | 804.4 | 905.5 | 984.8 | 1010.1 |
| 55° | 685.4 | 761.2 | 869.4 | 956.0 | 981.2 |
| 57.5° | 634.9 | 710.7 | 829.7 | 927.1 | 952.3 |
| 60° | 577.2 | 660.1 | 793.6 | 891.0 | 919.9 |
| 62.5° | 519.5 | 616.9 | 757.5 | 862.2 | 894.6 |
| 65° | 461.7 | 566.4 | 721.5 | 829.7 | 862.2 |
| 67.5° | 407.6 | 519.5 | 681.8 | 797.2 | 833.3 |
| 70° | 349.9 | 472.6 | 645.7 | 764.8 | 800.8 |
| 72.5° | 295.8 | 429.3 | 613.3 | 732.3 | 772.0 |
| 75° | 241.7 | 386.0 | 577.2 | 699.8 | 739.5 |
| 77.5° | 191.2 | 346.3 | 541.1 | 671.0 | 714.3 |
| 80° | 137.1 | 306.6 | 508.6 | 638.5 | 681.8 |
| 82.5° | 93.8 | 270.6 | 479.8 | 609.6 | 649.3 |
| 85° | 54.1 | 238.1 | 447.3 | 580.8 | 620.5 |
| 87.5° | 21.6 | 209.2 | 414.8 | 548.3 | 591.6 |
| 90° | 0.0 | 184.0 | 389.6 | 523.1 | 562.7 |
| 92.5° | 0.0 | 162.3 | 364.3 | 494.2 | 537.5 |
| 95° | 3.6 | 144.3 | 339.1 | 469.0 | 512.2 |
| 97.5° | 0.0 | 126.3 | 317.4 | 443.7 | 483.4 |
| 100° | 0.0 | 115.4 | 295.8 | 418.5 | 458.1 |
| 102.5° | 0.0 | 101.0 | 274.2 | 393.2 | 432.9 |
| 105° | 0.0 | 90.2 | 252.5 | 368.0 | 404.0 |
| 107.5° | 0.0 | 83.0 | 234.5 | 346.3 | 378.8 |
| 110° | 0.0 | 72.1 | 216.4 | 324.7 | 357.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 64.9 | 198.4 | 299.4 | 331.9 |
| 115° | 0.0 | 57.7 | 184.0 | 277.8 | 306.6 |
| 117.5° | 0.0 | 54.1 | 165.9 | 256.1 | 285.0 |
| 120° | 0.0 | 46.9 | 151.5 | 238.1 | 263.3 |
| 122.5° | 0.0 | 43.3 | 140.7 | 216.4 | 241.7 |
| 125° | 0.0 | 36.1 | 126.3 | 198.4 | 220.0 |
| 127.5° | 0.0 | 32.5 | 111.8 | 180.4 | 198.4 |
| 130° | 0.0 | 28.9 | 101.0 | 162.3 | 180.4 |
| 132.5° | 0.0 | 25.3 | 90.2 | 144.3 | 162.3 |
| 135° | 0.0 | 21.6 | 79.4 | 129.9 | 144.3 |
| 137.5° | 0.0 | 18.0 | 68.5 | 111.8 | 126.3 |
| 140° | 0.0 | 14.4 | 57.7 | 97.4 | 108.2 |
| 142.5° | 0.0 | 10.8 | 50.5 | 83.0 | 93.8 |
| 145° | 0.0 | 7.2 | 39.7 | 72.1 | 79.4 |
| 147.5° | 0.0 | 7.2 | 32.5 | 57.7 | 64.9 |
| 150° | 0.0 | 3.6 | 21.6 | 46.9 | 50.5 |
| 152.5° | 0.0 | 3.6 | 18.0 | 36.1 | 36.1 |
| 155° | 0.0 | 3.6 | 10.8 | 21.6 | 25.3 |
| 157.5° | 0.0 | 0.0 | 7.2 | 14.4 | 14.4 |
| 160° | 0.0 | 0.0 | 3.6 | 7.2 | 10.8 |
| 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)