

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: P218184

Luminaire Tested: **4SNLED-LD5-26SL-LN-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218184
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-LD5-26SL-LN-UNV-L835-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2744.0 lumens
Efficiency: N/A
Efficacy: 142.2 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

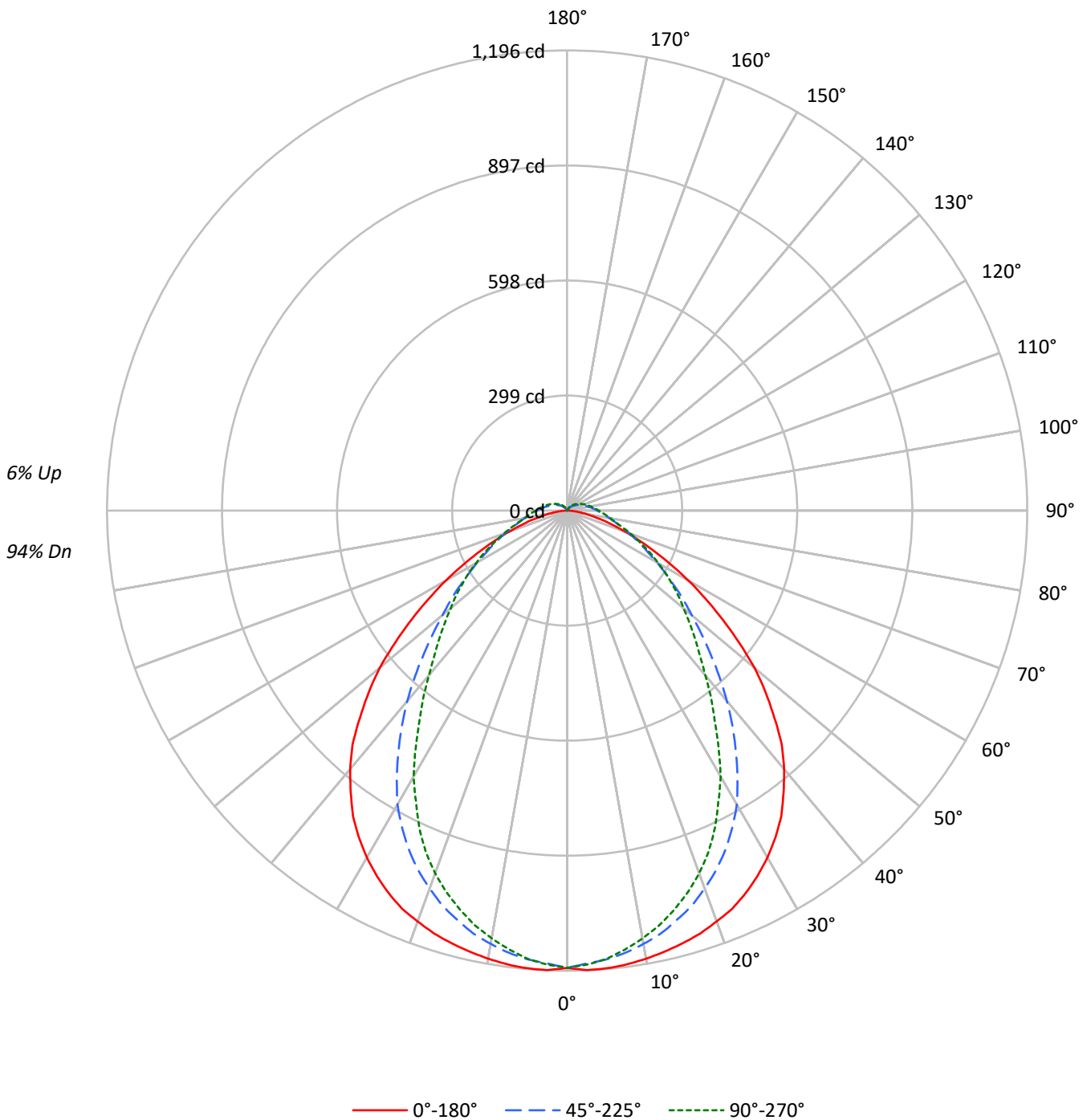
Input Watts (W): 19.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P218184

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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° | 19149 | 19149 | 19149 |
| 5° | 19245 | 17794 | 17397 |
| 10° | 19209 | 16559 | 15705 |
| 15° | 19200 | 15348 | 14133 |
| 20° | 19193 | 14134 | 12613 |
| 25° | 19137 | 12876 | 11026 |
| 30° | 18912 | 11513 | 9413 |
| 35° | 18541 | 9925 | 7745 |
| 40° | 17833 | 8400 | 6382 |
| 45° | 16666 | 6905 | 5354 |
| 50° | 15190 | 5635 | 4514 |
| 55° | 13071 | 4651 | 3847 |
| 60° | 10949 | 3808 | 3223 |
| 65° | 8703 | 3163 | 2664 |
| 70° | 6784 | 2658 | 2199 |
| 75° | 5139 | 2257 | 1826 |
| 80° | 3579 | 1995 | 1569 |
| 85° | 2165 | 1816 | 1419 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 111.7 | 4.1 |
| 10°-20° | 313.5 | 11.4 |
| 20°-30° | 454.0 | 16.5 |
| 30°-40° | 494.2 | 18.0 |
| 40°-50° | 438.9 | 16.0 |
| 50°-60° | 334.1 | 12.2 |
| 60°-70° | 221.8 | 8.1 |
| 70°-80° | 135.2 | 4.9 |
| 80°-90° | 83.8 | 3.1 |
| 90°-100° | 57.2 | 2.1 |
| 100°-110° | 40.1 | 1.5 |
| 110°-120° | 27.3 | 1.0 |
| 120°-130° | 17.3 | 0.6 |
| 130°-140° | 9.9 | 0.4 |
| 140°-150° | 4.6 | 0.2 |
| 150°-160° | 0.3 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 879.3 | 32.0 |
| 0°-40° | 1373.5 | 50.1 |
| 0°-60° | 2146.4 | 78.2 |
| 0°-90° | 2587.1 | 94.3 |
| 90°-120° | 124.7 | 4.5 |
| 90°-150° | 156.5 | 5.7 |
| 90°-180° | 157.0 | 5.7 |
| 0°-180° | 2744.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1188 | 1188 | 1188 | 1188 | 1188 | |
| 5° | 1194 | 1187 | 1171 | 1177 | 1170 | 114 |
| 15° | 1164 | 1144 | 1102 | 1089 | 1074 | 329 |
| 25° | 1097 | 1048 | 973 | 934 | 909 | 505 |
| 35° | 970 | 883 | 765 | 698 | 669 | 604 |
| 45° | 762 | 648 | 526 | 481 | 470 | 587 |
| 55° | 493 | 400 | 340 | 334 | 332 | 442 |
| 65° | 249 | 214 | 214 | 223 | 220 | 251 |
| 75° | 95 | 108 | 136 | 143 | 139 | 103 |
| 85° | 17 | 55 | 92 | 98 | 95 | 21 |
| 90° | 0 | 40 | 78 | 85 | 82 | 1 |
| 95° | 0 | 32 | 66 | 74 | 72 | 0 |
| 105° | 0 | 20 | 48 | 55 | 55 | 0 |
| 115° | 0 | 13 | 35 | 42 | 40 | 0 |
| 125° | 0 | 9 | 23 | 29 | 29 | 0 |
| 135° | 0 | 6 | 16 | 20 | 20 | 0 |
| 145° | 0 | 3 | 9 | 12 | 12 | 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: P218184

CATALOG NUMBER: 4SNLED-LD5-26SL-LN-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1188.4 | 1188.4 | 1188.4 | 1188.4 | 1188.4 |
| 2.5° | 1195.6 | 1189.8 | 1178.2 | 1185.5 | 1181.1 |
| 5° | 1194.1 | 1186.9 | 1171.0 | 1176.8 | 1169.6 |
| 7.5° | 1189.8 | 1181.1 | 1159.4 | 1162.3 | 1150.8 |
| 10° | 1182.6 | 1171.0 | 1143.5 | 1140.7 | 1129.1 |
| 12.5° | 1173.9 | 1159.4 | 1126.2 | 1116.1 | 1104.5 |
| 15° | 1163.8 | 1143.5 | 1101.6 | 1088.6 | 1074.2 |
| 17.5° | 1152.2 | 1124.7 | 1077.0 | 1056.8 | 1040.9 |
| 20° | 1136.3 | 1103.1 | 1045.2 | 1020.7 | 1003.3 |
| 22.5° | 1120.4 | 1077.0 | 1012.0 | 978.7 | 959.9 |
| 25° | 1097.3 | 1048.1 | 973.0 | 933.9 | 909.3 |
| 27.5° | 1071.3 | 1014.9 | 929.6 | 879.0 | 851.5 |
| 30° | 1040.9 | 975.8 | 881.9 | 822.6 | 798.0 |
| 32.5° | 1007.6 | 932.5 | 824.0 | 760.4 | 733.0 |
| 35° | 970.1 | 883.3 | 764.8 | 698.3 | 669.4 |
| 37.5° | 923.8 | 829.8 | 705.5 | 637.6 | 614.4 |
| 40° | 877.5 | 773.4 | 646.2 | 582.6 | 558.0 |
| 42.5° | 825.5 | 711.3 | 585.5 | 527.7 | 510.3 |
| 45° | 761.9 | 647.7 | 526.2 | 481.4 | 469.9 |
| 47.5° | 699.7 | 582.6 | 472.7 | 440.9 | 430.8 |
| 50° | 636.1 | 519.0 | 422.1 | 401.9 | 394.7 |
| 52.5° | 562.4 | 456.8 | 380.2 | 367.2 | 364.3 |
| 55° | 493.0 | 400.5 | 339.7 | 334.0 | 332.5 |
| 57.5° | 426.5 | 347.0 | 302.1 | 306.5 | 303.6 |
| 60° | 364.3 | 297.8 | 268.9 | 274.7 | 273.2 |
| 62.5° | 303.6 | 253.0 | 238.5 | 250.1 | 247.2 |
| 65° | 248.7 | 214.0 | 214.0 | 222.6 | 219.7 |
| 67.5° | 201.0 | 182.2 | 190.8 | 199.5 | 196.6 |
| 70° | 160.5 | 153.2 | 170.6 | 177.8 | 174.9 |
| 72.5° | 124.3 | 128.7 | 150.4 | 159.0 | 154.7 |
| 75° | 95.4 | 108.4 | 135.9 | 143.1 | 138.8 |
| 77.5° | 67.9 | 91.1 | 122.9 | 128.7 | 124.3 |
| 80° | 47.7 | 76.6 | 111.3 | 117.1 | 112.8 |
| 82.5° | 30.4 | 65.1 | 101.2 | 107.0 | 104.1 |
| 85° | 17.3 | 54.9 | 92.5 | 98.3 | 95.4 |
| 87.5° | 8.7 | 47.7 | 83.9 | 91.1 | 88.2 |
| 90° | 0.0 | 40.5 | 78.1 | 85.3 | 82.4 |
| 92.5° | 0.0 | 36.1 | 72.3 | 79.5 | 76.6 |
| 95° | 0.0 | 31.8 | 66.5 | 73.7 | 72.3 |
| 97.5° | 0.0 | 28.9 | 62.2 | 69.4 | 66.5 |
| 100° | 0.0 | 24.6 | 56.4 | 63.6 | 62.2 |
| 102.5° | 0.0 | 23.1 | 52.0 | 59.3 | 57.8 |
| 105° | 0.0 | 20.2 | 47.7 | 54.9 | 54.9 |
| 107.5° | 0.0 | 18.8 | 44.8 | 52.0 | 50.6 |
| 110° | 0.0 | 15.9 | 40.5 | 47.7 | 47.7 |



TEST NUMBER: P218184

CATALOG NUMBER: 4SNLED-LD5-26SL-LN-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 14.5 | 37.6 | 44.8 | 43.4 |
| 115° | 0.0 | 13.0 | 34.7 | 41.9 | 40.5 |
| 117.5° | 0.0 | 13.0 | 31.8 | 37.6 | 37.6 |
| 120° | 0.0 | 11.6 | 28.9 | 34.7 | 34.7 |
| 122.5° | 0.0 | 10.1 | 26.0 | 31.8 | 31.8 |
| 125° | 0.0 | 8.7 | 23.1 | 28.9 | 28.9 |
| 127.5° | 0.0 | 8.7 | 21.7 | 27.5 | 27.5 |
| 130° | 0.0 | 7.2 | 18.8 | 24.6 | 24.6 |
| 132.5° | 0.0 | 5.8 | 17.3 | 21.7 | 21.7 |
| 135° | 0.0 | 5.8 | 15.9 | 20.2 | 20.2 |
| 137.5° | 0.0 | 4.3 | 13.0 | 17.3 | 17.3 |
| 140° | 0.0 | 4.3 | 11.6 | 15.9 | 15.9 |
| 142.5° | 0.0 | 2.9 | 10.1 | 14.5 | 13.0 |
| 145° | 0.0 | 2.9 | 8.7 | 11.6 | 11.6 |
| 147.5° | 0.0 | 1.4 | 7.2 | 10.1 | 10.1 |
| 150° | 0.0 | 1.4 | 5.8 | 8.7 | 7.2 |
| 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)