

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: P218049

Luminaire Tested: **2SNLED-LD5-26SL-LC-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35685)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNLED-LD5-26SL-LC-UNV-L840-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 2FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2753.0 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.59 / 1.17 / 1.18
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 2' x H: 0.17')
CIE Type: Direct

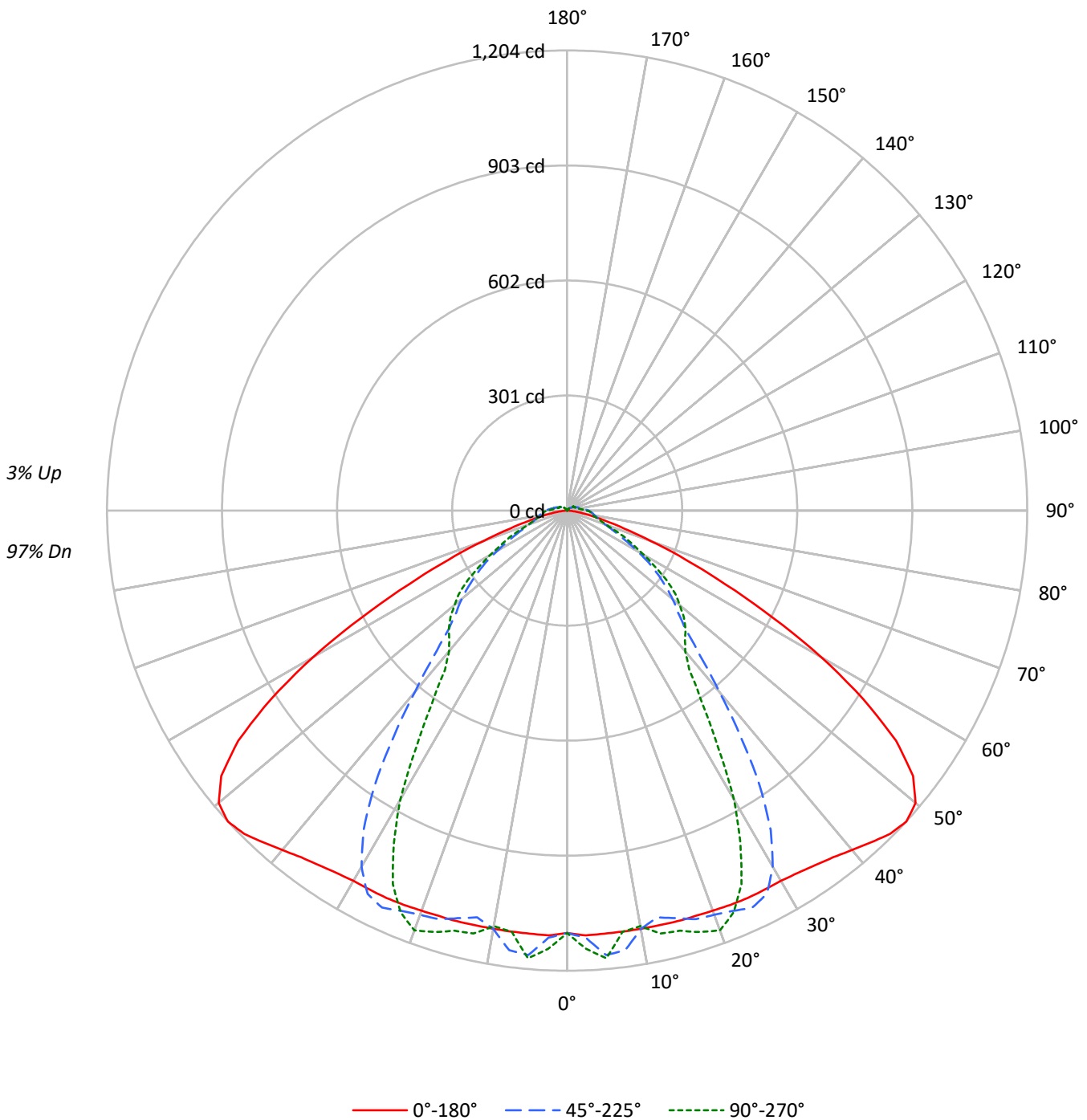
Input Watts (W): 20.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 2SNLED-LD5-26SL-LC-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P218049

CATALOG NUMBER: 2SNLED-LD5-26SL-LC-UNV-L840-CD1-U

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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 99 | 99 | 99 | 97 | |
| 1 | 109 | 105 | 101 | 98 | 106 | 102 | 99 | 96 | 97 | 95 | 92 | 93 | 91 | 89 | 89 | 87 | 85 | 89 | 87 | 85 | 83 | |
| 2 | 100 | 93 | 87 | 82 | 98 | 91 | 85 | 81 | 87 | 82 | 78 | 83 | 79 | 76 | 80 | 77 | 74 | 80 | 77 | 74 | 72 | |
| 3 | 93 | 83 | 76 | 70 | 90 | 81 | 75 | 69 | 78 | 72 | 67 | 75 | 70 | 66 | 72 | 68 | 64 | 72 | 68 | 64 | 62 | |
| 4 | 85 | 75 | 67 | 60 | 83 | 73 | 66 | 60 | 70 | 64 | 59 | 68 | 62 | 58 | 65 | 60 | 57 | 65 | 60 | 57 | 54 | |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 58 | 53 | 64 | 57 | 52 | 61 | 55 | 51 | 59 | 54 | 50 | 59 | 54 | 50 | 48 | |
| 6 | 73 | 61 | 53 | 47 | 71 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 45 | 54 | 49 | 45 | 54 | 49 | 45 | 43 | |
| 7 | 68 | 56 | 48 | 42 | 66 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 50 | 44 | 40 | 38 | |
| 8 | 64 | 51 | 43 | 38 | 62 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 46 | 40 | 36 | 46 | 40 | 36 | 34 | |
| 9 | 60 | 47 | 39 | 34 | 58 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 31 | |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 40 | 34 | 30 | 40 | 34 | 30 | 28 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 35627 | 35627 | 35627 |
| 5° | 35684 | 35393 | 34980 |
| 10° | 35833 | 32033 | 30715 |
| 15° | 36305 | 30563 | 29942 |
| 20° | 37075 | 30175 | 29391 |
| 25° | 38272 | 30032 | 26159 |
| 30° | 39698 | 27759 | 20598 |
| 35° | 42083 | 22502 | 14273 |
| 40° | 45566 | 15866 | 10985 |
| 45° | 50292 | 11267 | 9981 |
| 50° | 54263 | 9448 | 8796 |
| 55° | 52740 | 7746 | 7333 |
| 60° | 43297 | 5850 | 5483 |
| 65° | 29511 | 4227 | 4030 |
| 70° | 18026 | 3205 | 2761 |
| 75° | 9892 | 2726 | 2187 |
| 80° | 5315 | 2542 | 1881 |
| 85° | 2138 | 2456 | 1886 |



TEST NUMBER: P218049

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.7 | 3.9 |
| 10°-20° | 320.0 | 11.6 |
| 20°-30° | 508.5 | 18.5 |
| 30°-40° | 548.3 | 19.9 |
| 40°-50° | 472.6 | 17.2 |
| 50°-60° | 357.8 | 13.0 |
| 60°-70° | 193.3 | 7.0 |
| 70°-80° | 91.8 | 3.3 |
| 80°-90° | 57.6 | 2.1 |
| 90°-100° | 36.7 | 1.3 |
| 100°-110° | 23.5 | 0.9 |
| 110°-120° | 15.7 | 0.6 |
| 120°-130° | 10.4 | 0.4 |
| 130°-140° | 5.1 | 0.2 |
| 140°-150° | 2.1 | 0.1 |
| 150°-160° | 0.8 | 0.0 |
| 160°-170° | 0.1 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 937.2 | 34.0 |
| 0°-40° | 1485.6 | 54.0 |
| 0°-60° | 2316.0 | 84.1 |
| 0°-90° | 2658.7 | 96.6 |
| 90°-120° | 75.8 | 2.8 |
| 90°-150° | 93.4 | 3.4 |
| 90°-180° | 94.0 | 3.4 |
| 0°-180° | 2753.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1106 | 1106 | 1106 | 1106 | 1106 | |
| 5° | 1111 | 1135 | 1167 | 1183 | 1176 | 106 |
| 15° | 1112 | 1142 | 1104 | 1142 | 1138 | 315 |
| 25° | 1118 | 1097 | 1146 | 1115 | 1079 | 517 |
| 35° | 1132 | 1090 | 879 | 672 | 617 | 713 |
| 45° | 1196 | 749 | 437 | 432 | 438 | 920 |
| 55° | 1051 | 324 | 289 | 315 | 317 | 914 |
| 65° | 456 | 138 | 146 | 165 | 166 | 469 |
| 75° | 104 | 72 | 84 | 84 | 83 | 123 |
| 85° | 11 | 44 | 65 | 65 | 63 | 16 |
| 90° | 0 | 34 | 56 | 55 | 51 | 1 |
| 95° | 0 | 27 | 45 | 41 | 38 | 0 |
| 105° | 0 | 17 | 31 | 28 | 25 | 0 |
| 115° | 0 | 10 | 21 | 21 | 21 | 0 |
| 125° | 0 | 6 | 14 | 18 | 17 | 0 |
| 135° | 0 | 3 | 8 | 10 | 10 | 0 |
| 145° | 0 | 1 | 4 | 6 | 4 | 0 |
| 155° | 0 | 1 | 1 | 3 | 1 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P218049

CATALOG NUMBER: 2SNLED-LD5-26SL-LC-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1105.5 |
| 2.5° | 1112.5 | 1113.9 | 1118.2 | 1139.3 | 1147.7 |
| 5° | 1111.1 | 1135.1 | 1167.4 | 1182.9 | 1175.9 |
| 7.5° | 1111.1 | 1160.4 | 1160.4 | 1130.8 | 1111.1 |
| 10° | 1111.1 | 1174.5 | 1111.1 | 1105.5 | 1104.1 |
| 12.5° | 1111.1 | 1166.0 | 1090.0 | 1129.4 | 1133.6 |
| 15° | 1112.5 | 1142.1 | 1104.1 | 1142.1 | 1137.9 |
| 17.5° | 1112.5 | 1113.9 | 1121.0 | 1150.5 | 1156.2 |
| 20° | 1113.9 | 1095.6 | 1125.2 | 1173.1 | 1168.9 |
| 22.5° | 1116.7 | 1092.8 | 1133.6 | 1163.2 | 1137.9 |
| 25° | 1118.2 | 1097.0 | 1146.3 | 1115.3 | 1078.7 |
| 27.5° | 1118.2 | 1102.7 | 1130.8 | 1042.1 | 981.6 |
| 30° | 1118.2 | 1105.5 | 1075.9 | 940.7 | 873.1 |
| 32.5° | 1123.8 | 1102.7 | 991.4 | 808.3 | 735.1 |
| 35° | 1132.2 | 1090.0 | 878.8 | 671.7 | 616.8 |
| 37.5° | 1143.5 | 1056.2 | 746.4 | 561.9 | 525.3 |
| 40° | 1159.0 | 983.0 | 619.6 | 491.5 | 480.2 |
| 42.5° | 1177.3 | 875.9 | 515.4 | 456.3 | 456.3 |
| 45° | 1195.6 | 749.2 | 436.6 | 432.3 | 438.0 |
| 47.5° | 1204.1 | 625.3 | 392.9 | 408.4 | 414.0 |
| 50° | 1190.0 | 509.8 | 360.5 | 381.6 | 384.5 |
| 52.5° | 1140.7 | 407.0 | 323.9 | 349.2 | 356.3 |
| 55° | 1050.6 | 323.9 | 288.7 | 315.4 | 316.9 |
| 57.5° | 919.6 | 257.7 | 252.1 | 273.2 | 271.8 |
| 60° | 768.9 | 208.4 | 211.2 | 232.4 | 232.4 |
| 62.5° | 607.0 | 169.0 | 177.4 | 195.7 | 194.3 |
| 65° | 456.3 | 138.0 | 146.5 | 164.8 | 166.2 |
| 67.5° | 336.6 | 114.1 | 123.9 | 136.6 | 133.8 |
| 70° | 235.2 | 95.8 | 105.6 | 112.7 | 109.8 |
| 72.5° | 156.3 | 81.7 | 92.9 | 95.8 | 94.4 |
| 75° | 104.2 | 71.8 | 84.5 | 84.5 | 83.1 |
| 77.5° | 67.6 | 63.4 | 78.9 | 77.5 | 74.6 |
| 80° | 42.2 | 56.3 | 73.2 | 70.4 | 67.6 |
| 82.5° | 25.3 | 49.3 | 69.0 | 66.2 | 63.4 |
| 85° | 11.3 | 43.7 | 64.8 | 64.8 | 63.4 |
| 87.5° | 4.2 | 39.4 | 60.6 | 62.0 | 59.1 |
| 90° | 0.0 | 33.8 | 56.3 | 54.9 | 50.7 |
| 92.5° | 0.0 | 31.0 | 50.7 | 46.5 | 43.7 |
| 95° | 0.0 | 26.8 | 45.1 | 40.8 | 38.0 |
| 97.5° | 0.0 | 23.9 | 40.8 | 36.6 | 33.8 |
| 100° | 0.0 | 21.1 | 36.6 | 32.4 | 29.6 |
| 102.5° | 0.0 | 18.3 | 33.8 | 29.6 | 28.2 |
| 105° | 0.0 | 16.9 | 31.0 | 28.2 | 25.3 |
| 107.5° | 0.0 | 15.5 | 28.2 | 25.3 | 23.9 |
| 110° | 0.0 | 12.7 | 25.3 | 23.9 | 22.5 |



TEST NUMBER: P218049

CATALOG NUMBER: 2SNLED-LD5-26SL-LC-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 11.3 | 22.5 | 22.5 | 22.5 |
| 115° | 0.0 | 9.9 | 21.1 | 21.1 | 21.1 |
| 117.5° | 0.0 | 8.4 | 18.3 | 21.1 | 21.1 |
| 120° | 0.0 | 8.4 | 16.9 | 19.7 | 19.7 |
| 122.5° | 0.0 | 7.0 | 15.5 | 19.7 | 19.7 |
| 125° | 0.0 | 5.6 | 14.1 | 18.3 | 16.9 |
| 127.5° | 0.0 | 4.2 | 12.7 | 15.5 | 15.5 |
| 130° | 0.0 | 4.2 | 11.3 | 14.1 | 12.7 |
| 132.5° | 0.0 | 2.8 | 9.9 | 11.3 | 11.3 |
| 135° | 0.0 | 2.8 | 8.4 | 9.9 | 9.9 |
| 137.5° | 0.0 | 2.8 | 7.0 | 8.4 | 7.0 |
| 140° | 0.0 | 1.4 | 5.6 | 7.0 | 5.6 |
| 142.5° | 0.0 | 1.4 | 5.6 | 7.0 | 5.6 |
| 145° | 0.0 | 1.4 | 4.2 | 5.6 | 4.2 |
| 147.5° | 0.0 | 1.4 | 2.8 | 4.2 | 4.2 |
| 150° | 0.0 | 1.4 | 2.8 | 4.2 | 2.8 |
| 152.5° | 0.0 | 1.4 | 2.8 | 2.8 | 1.4 |
| 155° | 0.0 | 1.4 | 1.4 | 2.8 | 1.4 |
| 157.5° | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 |
| 160° | 1.4 | 1.4 | 1.4 | 1.4 | 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)