

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: P218633

Luminaire Tested: **2SNLED-LD5-21SL-RW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35689)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNLED-LD5-21SL-RW-UNV-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 2FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2551.0 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.19 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 2' x H: 0.17')
CIE Type: Direct

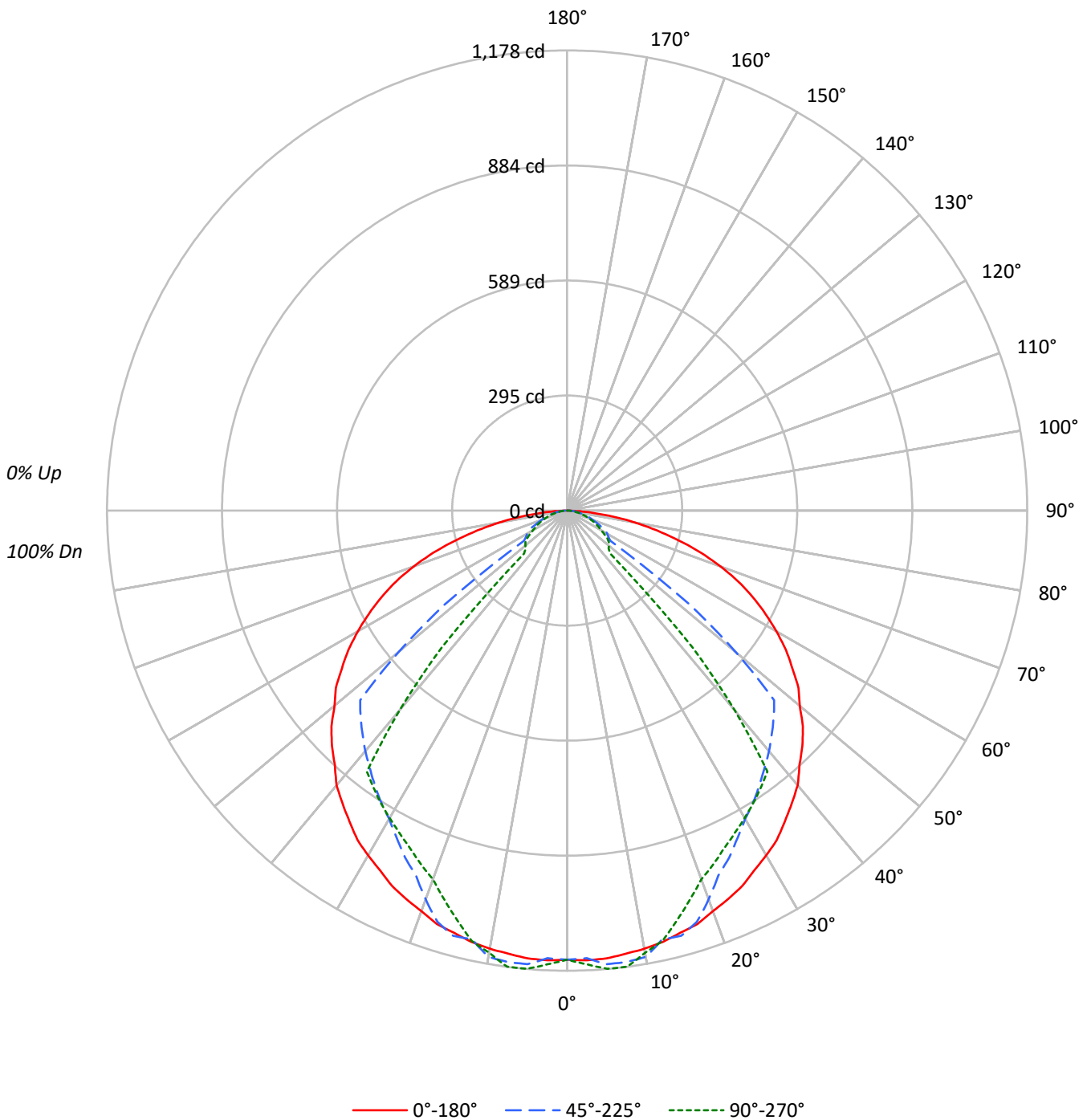
Input Watts (W): 17.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P218633

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Luminous Intensity Polar Plot





TEST NUMBER: P218633

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L850-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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 92 | 91 | 89 | 87 | | | | | 87 | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 87 | 83 | 89 | 85 | 81 | 86 | 82 | 79 | 83 | 80 | 77 | 75 | | | | | 75 | | | |
| 3 | 94 | 84 | 77 | 71 | 91 | 83 | 76 | 71 | 80 | 74 | 70 | 77 | 72 | 68 | 75 | 71 | 67 | 65 | | | | | 65 | | | |
| 4 | 87 | 76 | 68 | 62 | 84 | 74 | 67 | 61 | 72 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | 57 | | | | | 57 | | | |
| 5 | 80 | 68 | 60 | 54 | 78 | 67 | 60 | 54 | 65 | 59 | 53 | 63 | 57 | 53 | 62 | 56 | 52 | 50 | | | | | 50 | | | |
| 6 | 74 | 62 | 54 | 48 | 73 | 61 | 53 | 48 | 59 | 53 | 47 | 58 | 52 | 47 | 56 | 51 | 47 | 45 | | | | | 45 | | | |
| 7 | 69 | 57 | 49 | 43 | 68 | 56 | 48 | 43 | 54 | 48 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 40 | | | | | 40 | | | |
| 8 | 65 | 52 | 44 | 39 | 63 | 51 | 44 | 39 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 36 | | | | | 36 | | | |
| 9 | 61 | 48 | 40 | 35 | 59 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 44 | 39 | 34 | 33 | | | | | 33 | | | |
| 10 | 57 | 44 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | 41 | 36 | 32 | 30 | | | | | 30 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 37048 | 37048 | 37048 |
| 5° | 36965 | 35339 | 35031 |
| 10° | 36732 | 33451 | 31981 |
| 15° | 36517 | 31197 | 28571 |
| 20° | 36316 | 28405 | 25260 |
| 25° | 36297 | 25691 | 23104 |
| 30° | 36183 | 23517 | 21440 |
| 35° | 36102 | 21975 | 20014 |
| 40° | 36095 | 20581 | 15249 |
| 45° | 35822 | 19297 | 3548 |
| 50° | 35435 | 14750 | 3196 |
| 55° | 35336 | 3606 | 2925 |
| 60° | 34839 | 3279 | 2385 |
| 65° | 33909 | 2764 | 1969 |
| 70° | 32022 | 2139 | 1539 |
| 75° | 28043 | 1587 | 1121 |
| 80° | 22116 | 1062 | 704 |
| 85° | 11825 | 606 | 315 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 111.0 | 4.4 |
| 10°-20° | 314.6 | 12.3 |
| 20°-30° | 463.4 | 18.2 |
| 30°-40° | 557.7 | 21.9 |
| 40°-50° | 477.7 | 18.7 |
| 50°-60° | 309.1 | 12.1 |
| 60°-70° | 205.5 | 8.1 |
| 70°-80° | 87.6 | 3.4 |
| 80°-90° | 24.5 | 1.0 |
| 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° | 888.9 | 34.8 |
| 0°-40° | 1446.7 | 56.7 |
| 0°-60° | 2233.4 | 87.5 |
| 0°-90° | 2551.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2551.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1150 | 1150 | 1150 | 1150 | 1150 | |
| 5° | 1151 | 1155 | 1166 | 1179 | 1178 | 109 |
| 15° | 1119 | 1150 | 1127 | 1103 | 1086 | 316 |
| 25° | 1060 | 1067 | 981 | 959 | 953 | 488 |
| 35° | 971 | 934 | 858 | 865 | 865 | 609 |
| 45° | 852 | 757 | 748 | 456 | 156 | 657 |
| 55° | 704 | 597 | 134 | 128 | 126 | 629 |
| 65° | 524 | 377 | 96 | 82 | 81 | 517 |
| 75° | 295 | 69 | 49 | 44 | 43 | 313 |
| 85° | 62 | 19 | 16 | 12 | 11 | 80 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P218633

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 |
| 2.5° | 1152.3 | 1148.3 | 1147.0 | 1161.6 | 1162.9 |
| 5° | 1151.0 | 1155.0 | 1165.6 | 1178.9 | 1177.6 |
| 7.5° | 1144.3 | 1157.6 | 1165.6 | 1185.6 | 1177.6 |
| 10° | 1139.0 | 1162.9 | 1160.3 | 1161.6 | 1149.6 |
| 12.5° | 1131.0 | 1153.6 | 1124.4 | 1144.3 | 1128.3 |
| 15° | 1119.0 | 1149.6 | 1127.0 | 1103.1 | 1085.8 |
| 17.5° | 1109.7 | 1141.6 | 1104.4 | 1047.2 | 1044.5 |
| 20° | 1091.1 | 1108.4 | 1059.2 | 1017.9 | 1004.6 |
| 22.5° | 1076.4 | 1096.4 | 1011.2 | 983.3 | 979.3 |
| 25° | 1060.5 | 1067.1 | 980.6 | 959.4 | 952.7 |
| 27.5° | 1037.9 | 1051.2 | 944.7 | 934.1 | 930.1 |
| 30° | 1019.2 | 1019.2 | 911.5 | 911.5 | 908.8 |
| 32.5° | 999.3 | 976.7 | 886.2 | 887.5 | 887.5 |
| 35° | 971.3 | 934.1 | 858.2 | 864.9 | 864.9 |
| 37.5° | 944.7 | 882.2 | 830.3 | 840.9 | 842.3 |
| 40° | 918.1 | 842.3 | 803.7 | 815.7 | 666.6 |
| 42.5° | 880.9 | 798.4 | 775.7 | 628.0 | 475.0 |
| 45° | 851.6 | 757.1 | 747.8 | 456.4 | 155.7 |
| 47.5° | 818.3 | 717.2 | 718.5 | 145.0 | 143.7 |
| 50° | 777.1 | 675.9 | 562.8 | 137.1 | 139.7 |
| 52.5° | 746.5 | 638.7 | 396.5 | 133.1 | 134.4 |
| 55° | 703.9 | 597.4 | 134.4 | 127.7 | 126.4 |
| 57.5° | 664.0 | 558.8 | 125.1 | 118.4 | 113.1 |
| 60° | 618.7 | 517.6 | 118.4 | 105.1 | 101.1 |
| 62.5° | 572.2 | 476.4 | 109.1 | 93.1 | 90.5 |
| 65° | 524.3 | 376.6 | 95.8 | 82.5 | 81.2 |
| 67.5° | 473.7 | 247.5 | 81.2 | 73.2 | 71.9 |
| 70° | 417.8 | 97.1 | 70.5 | 63.9 | 61.2 |
| 72.5° | 359.3 | 83.8 | 59.9 | 54.6 | 51.9 |
| 75° | 295.4 | 69.2 | 49.2 | 43.9 | 42.6 |
| 77.5° | 235.5 | 51.9 | 39.9 | 34.6 | 33.3 |
| 80° | 175.6 | 38.6 | 30.6 | 26.6 | 25.3 |
| 82.5° | 119.8 | 27.9 | 22.6 | 18.6 | 17.3 |
| 85° | 62.5 | 18.6 | 16.0 | 12.0 | 10.6 |
| 87.5° | 24.0 | 12.0 | 9.3 | 5.3 | 5.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)