

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: P218555

Luminaire Tested: **4SNLED-LD5-21SL-RW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218555
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: 4SNLED-LD5-21SL-RW-UNV-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2577.0 lumens
Efficiency: N/A
Efficacy: 161.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.19 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')
CIE Type: Direct

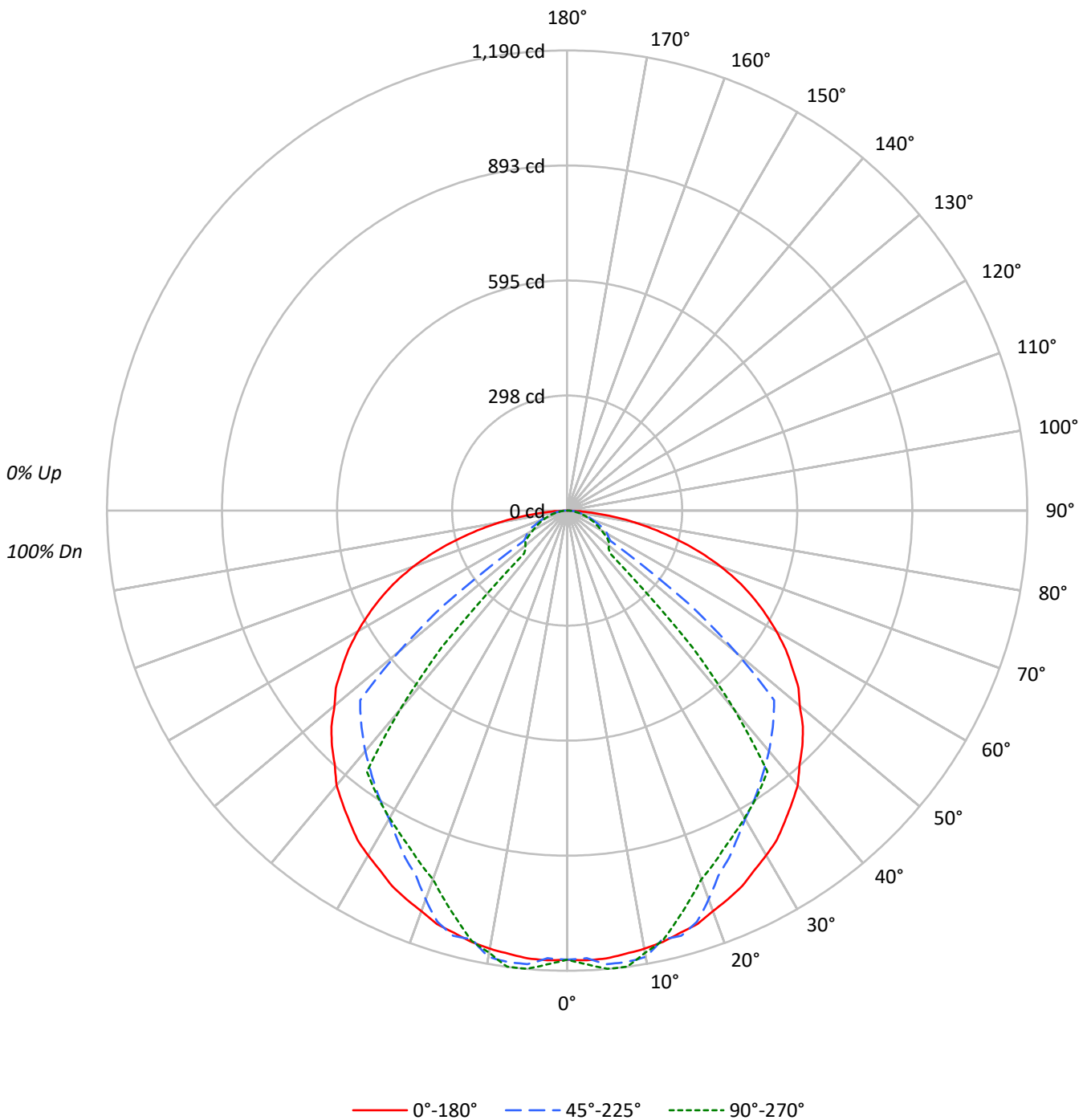
Input Watts (W): 16
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18713 | 18713 | 18713 |
| 5° | 18738 | 17893 | 17694 |
| 10° | 18689 | 16974 | 16153 |
| 15° | 18649 | 15862 | 14430 |
| 20° | 18617 | 14468 | 12758 |
| 25° | 18683 | 13109 | 11669 |
| 30° | 18706 | 12019 | 10830 |
| 35° | 18753 | 11251 | 10109 |
| 40° | 18849 | 10554 | 7702 |
| 45° | 18819 | 9912 | 1792 |
| 50° | 18746 | 7590 | 1614 |
| 55° | 18853 | 1859 | 1477 |
| 60° | 18784 | 1694 | 1206 |
| 65° | 18533 | 1431 | 994 |
| 70° | 17840 | 1109 | 777 |
| 75° | 16073 | 825 | 566 |
| 80° | 13310 | 554 | 355 |
| 85° | 7910 | 316 | 161 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 112.1 | 4.4 |
| 10°-20° | 317.8 | 12.3 |
| 20°-30° | 468.1 | 18.2 |
| 30°-40° | 563.4 | 21.9 |
| 40°-50° | 482.5 | 18.7 |
| 50°-60° | 312.2 | 12.1 |
| 60°-70° | 207.5 | 8.1 |
| 70°-80° | 88.5 | 3.4 |
| 80°-90° | 24.8 | 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° | 898.0 | 34.8 |
| 0°-40° | 1461.4 | 56.7 |
| 0°-60° | 2256.1 | 87.6 |
| 0°-90° | 2577.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2577.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1161 | 1161 | 1161 | 1161 | 1161 | |
| 5° | 1163 | 1167 | 1178 | 1191 | 1190 | 111 |
| 15° | 1130 | 1161 | 1138 | 1114 | 1097 | 320 |
| 25° | 1071 | 1078 | 991 | 969 | 962 | 493 |
| 35° | 981 | 944 | 867 | 874 | 874 | 615 |
| 45° | 860 | 765 | 755 | 461 | 157 | 663 |
| 55° | 711 | 604 | 136 | 129 | 128 | 636 |
| 65° | 530 | 380 | 97 | 83 | 82 | 522 |
| 75° | 298 | 70 | 50 | 44 | 43 | 316 |
| 85° | 63 | 19 | 16 | 12 | 11 | 81 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P218555

CATALOG NUMBER: 4SNLED-LD5-21SL-RW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1161.3 | 1161.3 | 1161.3 | 1161.3 | 1161.3 |
| 2.5° | 1164.0 | 1160.0 | 1158.7 | 1173.4 | 1174.8 |
| 5° | 1162.7 | 1166.7 | 1177.5 | 1190.9 | 1189.6 |
| 7.5° | 1156.0 | 1169.4 | 1177.5 | 1197.6 | 1189.6 |
| 10° | 1150.6 | 1174.8 | 1172.1 | 1173.4 | 1161.3 |
| 12.5° | 1142.5 | 1165.4 | 1135.8 | 1156.0 | 1139.8 |
| 15° | 1130.4 | 1161.3 | 1138.5 | 1114.3 | 1096.8 |
| 17.5° | 1121.0 | 1153.3 | 1115.6 | 1057.8 | 1055.2 |
| 20° | 1102.2 | 1119.7 | 1069.9 | 1028.3 | 1014.8 |
| 22.5° | 1087.4 | 1107.6 | 1021.6 | 993.3 | 989.3 |
| 25° | 1071.3 | 1078.0 | 990.6 | 969.1 | 962.4 |
| 27.5° | 1048.4 | 1061.9 | 954.3 | 943.6 | 939.6 |
| 30° | 1029.6 | 1029.6 | 920.7 | 920.7 | 918.1 |
| 32.5° | 1009.5 | 986.6 | 895.2 | 896.6 | 896.6 |
| 35° | 981.2 | 943.6 | 867.0 | 873.7 | 873.7 |
| 37.5° | 954.3 | 891.2 | 838.8 | 849.5 | 850.8 |
| 40° | 927.5 | 850.8 | 811.9 | 824.0 | 673.4 |
| 42.5° | 889.8 | 806.5 | 783.6 | 634.4 | 479.9 |
| 45° | 860.3 | 764.8 | 755.4 | 461.0 | 157.3 |
| 47.5° | 826.7 | 724.5 | 725.8 | 146.5 | 145.2 |
| 50° | 785.0 | 682.8 | 568.6 | 138.4 | 141.1 |
| 52.5° | 754.1 | 645.2 | 400.6 | 134.4 | 135.8 |
| 55° | 711.1 | 603.5 | 135.8 | 129.0 | 127.7 |
| 57.5° | 670.7 | 564.5 | 126.4 | 119.6 | 114.3 |
| 60° | 625.0 | 522.9 | 119.6 | 106.2 | 102.2 |
| 62.5° | 578.0 | 481.2 | 110.2 | 94.1 | 91.4 |
| 65° | 529.6 | 380.4 | 96.8 | 83.3 | 82.0 |
| 67.5° | 478.5 | 250.0 | 82.0 | 73.9 | 72.6 |
| 70° | 422.1 | 98.1 | 71.2 | 64.5 | 61.8 |
| 72.5° | 362.9 | 84.7 | 60.5 | 55.1 | 52.4 |
| 75° | 298.4 | 69.9 | 49.7 | 44.4 | 43.0 |
| 77.5° | 237.9 | 52.4 | 40.3 | 34.9 | 33.6 |
| 80° | 177.4 | 39.0 | 30.9 | 26.9 | 25.5 |
| 82.5° | 121.0 | 28.2 | 22.9 | 18.8 | 17.5 |
| 85° | 63.2 | 18.8 | 16.1 | 12.1 | 10.8 |
| 87.5° | 24.2 | 12.1 | 9.4 | 5.4 | 5.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)