

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: P218401

Luminaire Tested: **2SNLED-LD5-19SL-RM-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35688)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNLED-LD5-19SL-RM-UNV-L840-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 2FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2061.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.46 / 0.67
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 2' x H: 0.17')
CIE Type: Direct

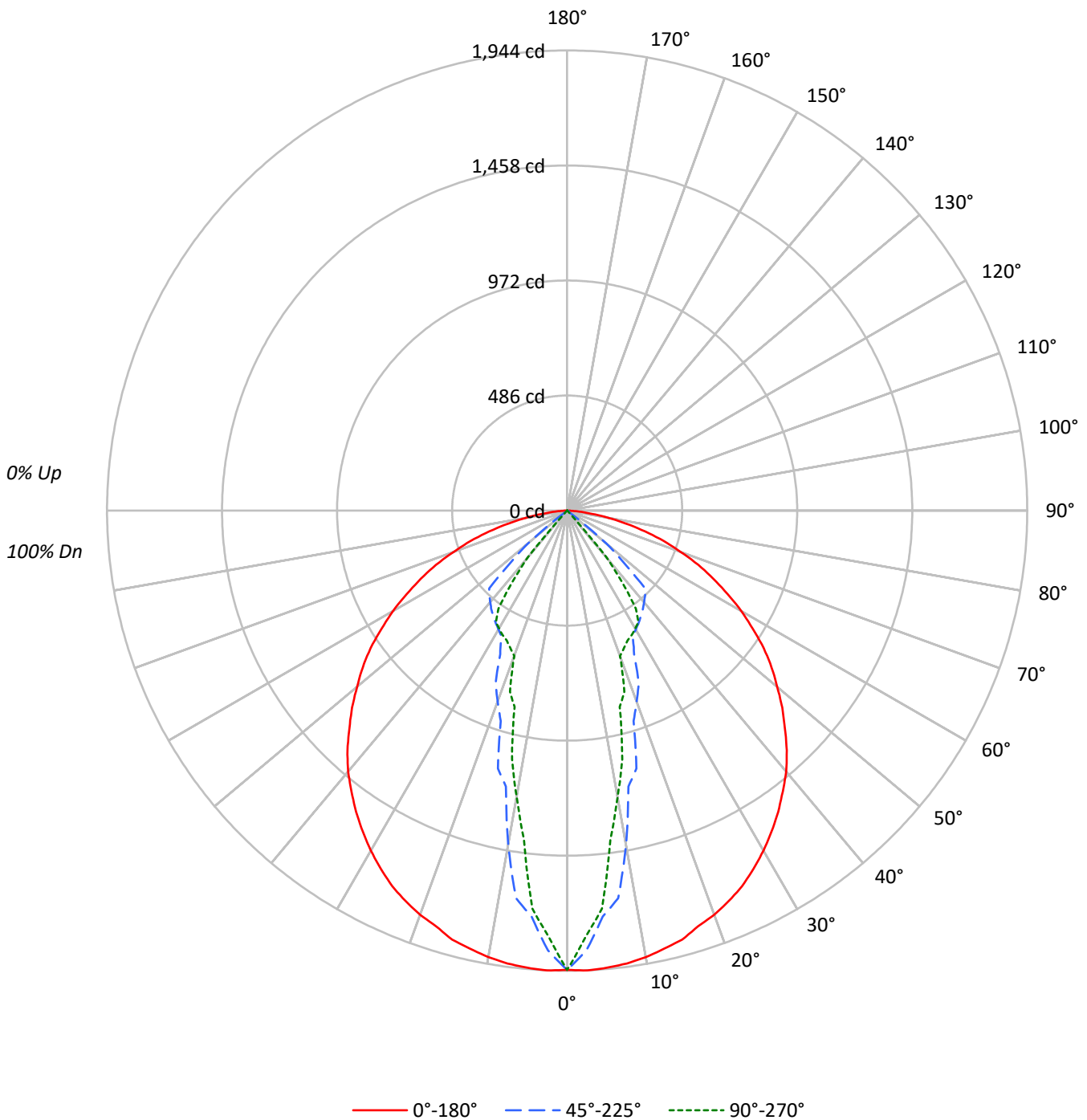
Input Watts (W): 15.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 111 | 108 | 104 | 101 | 109 | 105 | 103 | 100 | 101 | 99 | 97 | 98 | 96 | 94 | 94 | 92 | 91 | 89 |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 81 | 79 |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 84 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 71 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 62 |
| 5 | 84 | 73 | 66 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | 68 | 63 | 59 | 67 | 62 | 58 | 56 |
| 6 | 78 | 67 | 60 | 54 | 77 | 66 | 59 | 54 | 65 | 58 | 54 | 63 | 57 | 53 | 62 | 57 | 53 | 51 |
| 7 | 74 | 62 | 54 | 49 | 72 | 61 | 54 | 49 | 60 | 53 | 49 | 58 | 53 | 48 | 57 | 52 | 48 | 46 |
| 8 | 69 | 57 | 50 | 45 | 68 | 57 | 50 | 45 | 56 | 49 | 45 | 54 | 49 | 44 | 53 | 48 | 44 | 43 |
| 9 | 65 | 54 | 46 | 42 | 64 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 |
| 10 | 62 | 50 | 43 | 38 | 60 | 50 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 62537 | 62537 | 62537 |
| 5° | 62256 | 52190 | 50199 |
| 10° | 61777 | 41299 | 34142 |
| 15° | 61247 | 31244 | 22595 |
| 20° | 60477 | 23001 | 16432 |
| 25° | 59906 | 17538 | 14664 |
| 30° | 58883 | 14959 | 13561 |
| 35° | 57761 | 13927 | 11711 |
| 40° | 56594 | 12934 | 5879 |
| 45° | 54725 | 12005 | 23 |
| 50° | 52827 | 5692 | 0 |
| 55° | 50908 | 188 | 0 |
| 60° | 47903 | 138 | 0 |
| 65° | 44070 | 58 | 0 |
| 70° | 39088 | 30 | 0 |
| 75° | 32344 | 32 | 26 |
| 80° | 22079 | 35 | 28 |
| 85° | 9611 | 38 | 30 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 160.1 | 7.8 |
| 10°-20° | 345.2 | 16.8 |
| 20°-30° | 411.9 | 20.0 |
| 30°-40° | 438.2 | 21.3 |
| 40°-50° | 320.2 | 15.5 |
| 50°-60° | 204.5 | 9.9 |
| 60°-70° | 123.1 | 6.0 |
| 70°-80° | 48.0 | 2.3 |
| 80°-90° | 9.7 | 0.5 |
| 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° | 917.2 | 44.5 |
| 0°-40° | 1355.5 | 65.8 |
| 0°-60° | 1880.2 | 91.2 |
| 0°-90° | 2061.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2061.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1940 | 1940 | 1940 | 1940 | 1940 | |
| 5° | 1938 | 1844 | 1721 | 1690 | 1688 | 184 |
| 15° | 1877 | 1601 | 1129 | 880 | 859 | 529 |
| 25° | 1750 | 1116 | 669 | 610 | 605 | 805 |
| 35° | 1554 | 737 | 544 | 544 | 506 | 972 |
| 45° | 1301 | 477 | 465 | 2 | 1 | 1005 |
| 55° | 1014 | 377 | 7 | 1 | 0 | 903 |
| 65° | 681 | 153 | 2 | 1 | 0 | 674 |
| 75° | 341 | 8 | 1 | 1 | 1 | 360 |
| 85° | 51 | 1 | 1 | 1 | 1 | 71 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 2SNLED-LD5-19SL-RM-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1940.5 | 1940.5 | 1940.5 | 1940.5 | 1940.5 |
| 2.5° | 1944.5 | 1931.6 | 1859.8 | 1830.0 | 1801.1 |
| 5° | 1938.5 | 1843.9 | 1721.4 | 1690.5 | 1687.5 |
| 7.5° | 1929.6 | 1755.2 | 1651.6 | 1474.3 | 1399.6 |
| 10° | 1915.6 | 1697.5 | 1432.5 | 1283.1 | 1227.3 |
| 12.5° | 1895.7 | 1611.8 | 1194.4 | 1108.7 | 1075.9 |
| 15° | 1876.8 | 1600.8 | 1128.7 | 879.6 | 858.7 |
| 17.5° | 1840.9 | 1377.7 | 932.4 | 826.8 | 802.9 |
| 20° | 1817.0 | 1276.1 | 857.7 | 717.2 | 653.5 |
| 22.5° | 1785.1 | 1216.3 | 789.0 | 652.5 | 627.6 |
| 25° | 1750.3 | 1115.7 | 669.4 | 609.7 | 604.7 |
| 27.5° | 1705.4 | 981.2 | 599.7 | 593.7 | 591.7 |
| 30° | 1658.6 | 832.8 | 579.8 | 577.8 | 574.8 |
| 32.5° | 1607.8 | 774.0 | 561.8 | 561.8 | 558.8 |
| 35° | 1554.0 | 737.2 | 543.9 | 543.9 | 506.1 |
| 37.5° | 1496.2 | 690.3 | 526.0 | 526.0 | 380.5 |
| 40° | 1439.5 | 591.7 | 505.1 | 350.7 | 257.0 |
| 42.5° | 1373.7 | 511.0 | 487.1 | 245.1 | 2.0 |
| 45° | 1301.0 | 477.2 | 465.2 | 2.0 | 1.0 |
| 47.5° | 1232.3 | 453.3 | 316.8 | 1.0 | 0.0 |
| 50° | 1158.5 | 427.4 | 217.2 | 1.0 | 0.0 |
| 52.5° | 1088.8 | 403.4 | 10.0 | 1.0 | 0.0 |
| 55° | 1014.1 | 376.6 | 7.0 | 1.0 | 0.0 |
| 57.5° | 929.4 | 350.7 | 6.0 | 1.0 | 0.0 |
| 60° | 850.7 | 322.8 | 5.0 | 1.0 | 0.0 |
| 62.5° | 764.1 | 273.9 | 3.0 | 1.0 | 0.0 |
| 65° | 681.4 | 153.4 | 2.0 | 1.0 | 0.0 |
| 67.5° | 599.7 | 24.9 | 2.0 | 1.0 | 0.0 |
| 70° | 510.0 | 16.9 | 1.0 | 1.0 | 0.0 |
| 72.5° | 427.4 | 13.0 | 1.0 | 1.0 | 1.0 |
| 75° | 340.7 | 8.0 | 1.0 | 1.0 | 1.0 |
| 77.5° | 255.0 | 5.0 | 1.0 | 1.0 | 1.0 |
| 80° | 175.3 | 3.0 | 1.0 | 1.0 | 1.0 |
| 82.5° | 105.6 | 1.0 | 1.0 | 1.0 | 1.0 |
| 85° | 50.8 | 1.0 | 1.0 | 1.0 | 1.0 |
| 87.5° | 15.9 | 1.0 | 1.0 | 1.0 | 1.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)