

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: P218282

Luminaire Tested: **2SNLED-LD5-16SL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35687)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNLED-LD5-16SL-LW-UNV-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 2FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2013.0 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 2' x H: 0.17')
CIE Type: Semi-Direct

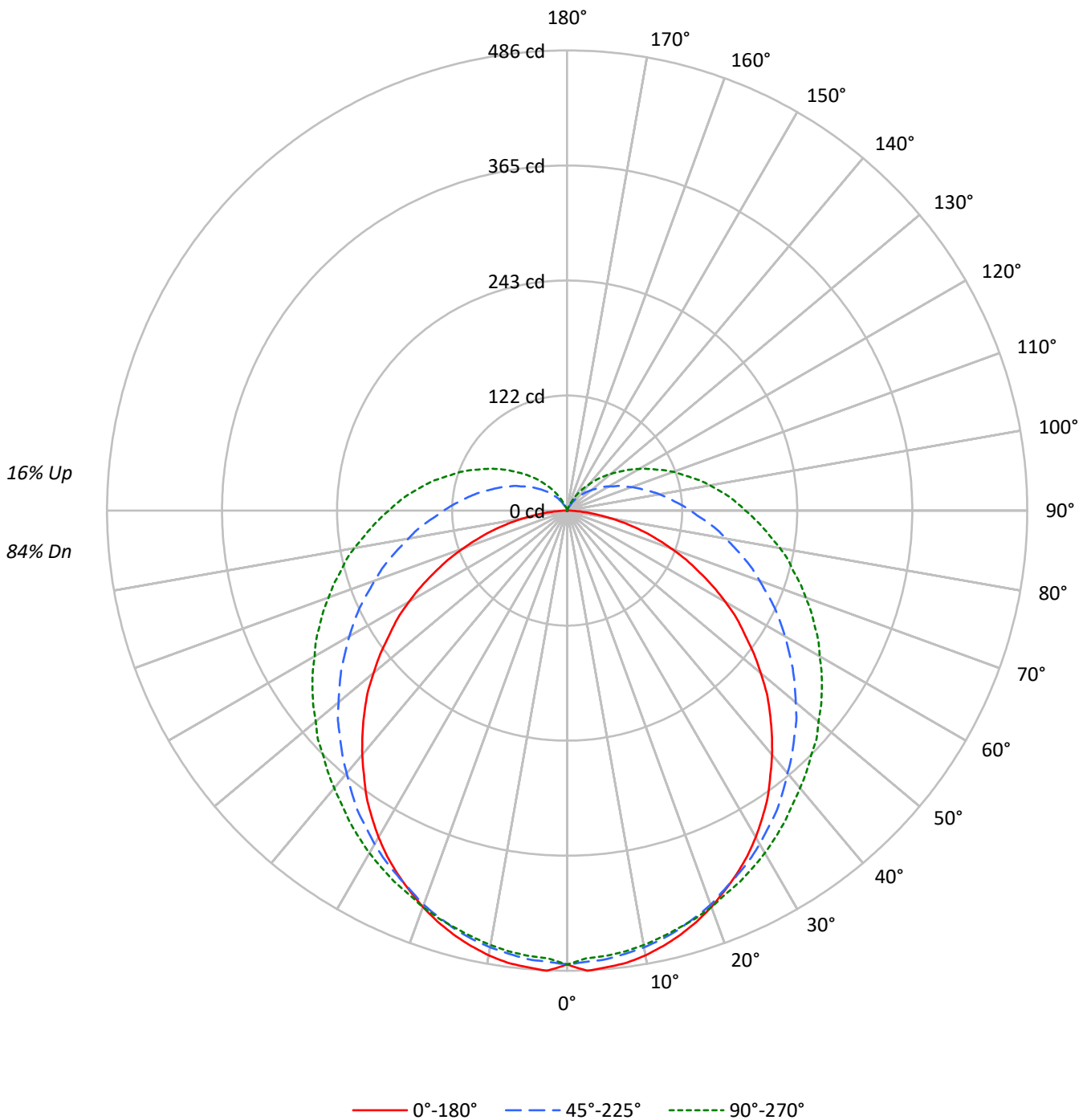
Input Watts (W): 15.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P218282

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 115 | 115 | 115 | 115 | 111 | 111 | 111 | 111 | 102 | 102 | 102 | 95 | 95 | 95 | 88 | 88 | 88 | 84 |
| 1 | 102 | 96 | 91 | 86 | 98 | 93 | 88 | 83 | 85 | 81 | 78 | 79 | 76 | 73 | 73 | 70 | 68 | 64 |
| 2 | 92 | 83 | 75 | 68 | 88 | 79 | 72 | 66 | 73 | 67 | 62 | 67 | 63 | 58 | 62 | 58 | 55 | 52 |
| 3 | 83 | 72 | 63 | 56 | 79 | 69 | 61 | 54 | 64 | 57 | 51 | 59 | 53 | 48 | 54 | 49 | 45 | 42 |
| 4 | 76 | 63 | 54 | 46 | 72 | 61 | 52 | 45 | 56 | 49 | 43 | 52 | 46 | 41 | 48 | 43 | 38 | 36 |
| 5 | 70 | 56 | 46 | 39 | 66 | 54 | 45 | 39 | 50 | 42 | 37 | 46 | 40 | 35 | 43 | 37 | 33 | 30 |
| 6 | 64 | 50 | 41 | 34 | 61 | 48 | 40 | 33 | 45 | 37 | 32 | 42 | 35 | 30 | 39 | 33 | 29 | 26 |
| 7 | 59 | 45 | 36 | 30 | 57 | 44 | 35 | 29 | 41 | 33 | 28 | 38 | 31 | 27 | 35 | 30 | 25 | 23 |
| 8 | 55 | 41 | 32 | 26 | 53 | 40 | 32 | 26 | 37 | 30 | 25 | 35 | 28 | 24 | 32 | 27 | 23 | 21 |
| 9 | 51 | 38 | 29 | 24 | 49 | 36 | 29 | 23 | 34 | 27 | 22 | 32 | 26 | 21 | 30 | 24 | 20 | 18 |
| 10 | 48 | 35 | 27 | 21 | 46 | 34 | 26 | 21 | 32 | 25 | 20 | 30 | 24 | 19 | 28 | 22 | 18 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15447 | 15447 | 15447 |
| 5° | 15547 | 14422 | 14041 |
| 10° | 15380 | 13504 | 12964 |
| 15° | 15129 | 12664 | 12007 |
| 20° | 14828 | 11883 | 11202 |
| 25° | 14502 | 11135 | 10481 |
| 30° | 14144 | 10496 | 9854 |
| 35° | 13730 | 9891 | 9274 |
| 40° | 13241 | 9275 | 8754 |
| 45° | 12745 | 8753 | 8309 |
| 50° | 12166 | 8258 | 7926 |
| 55° | 11516 | 7805 | 7599 |
| 60° | 10879 | 7357 | 7264 |
| 65° | 9992 | 6968 | 6996 |
| 70° | 8975 | 6558 | 6739 |
| 75° | 7680 | 6233 | 6513 |
| 80° | 5781 | 5910 | 6348 |
| 85° | 3424 | 5673 | 6176 |



TEST NUMBER: P218282

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L850-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 45.4 | 2.3 |
| 10°-20° | 129.8 | 6.4 |
| 20°-30° | 197.3 | 9.8 |
| 30°-40° | 241.4 | 12.0 |
| 40°-50° | 260.7 | 12.9 |
| 50°-60° | 255.9 | 12.7 |
| 60°-70° | 230.5 | 11.4 |
| 70°-80° | 190.9 | 9.5 |
| 80°-90° | 146.8 | 7.3 |
| 90°-100° | 110.7 | 5.5 |
| 100°-110° | 81.4 | 4.0 |
| 110°-120° | 56.2 | 2.8 |
| 120°-130° | 35.6 | 1.8 |
| 130°-140° | 19.7 | 1.0 |
| 140°-150° | 8.5 | 0.4 |
| 150°-160° | 2.1 | 0.1 |
| 160°-170° | 0.1 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 372.5 | 18.5 |
| 0°-40° | 613.9 | 30.5 |
| 0°-60° | 1130.5 | 56.2 |
| 0°-90° | 1698.7 | 84.4 |
| 90°-120° | 248.3 | 12.3 |
| 90°-150° | 312.1 | 15.5 |
| 90°-180° | 314.0 | 15.6 |
| 0°-180° | 2013.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 479 | 479 | 479 | 479 | 479 | |
| 5° | 484 | 482 | 476 | 476 | 472 | 46 |
| 15° | 464 | 462 | 458 | 460 | 456 | 131 |
| 25° | 424 | 424 | 425 | 433 | 432 | 195 |
| 35° | 369 | 373 | 386 | 398 | 401 | 231 |
| 45° | 303 | 316 | 339 | 360 | 365 | 234 |
| 55° | 229 | 255 | 291 | 320 | 328 | 206 |
| 65° | 154 | 190 | 242 | 278 | 288 | 153 |
| 75° | 81 | 129 | 193 | 234 | 248 | 86 |
| 85° | 18 | 80 | 150 | 194 | 208 | 21 |
| 90° | 0 | 62 | 130 | 175 | 188 | 1 |
| 95° | 1 | 48 | 114 | 157 | 171 | 0 |
| 105° | 0 | 30 | 84 | 123 | 135 | 0 |
| 115° | 0 | 19 | 62 | 93 | 103 | 0 |
| 125° | 0 | 12 | 42 | 66 | 74 | 0 |
| 135° | 0 | 7 | 27 | 44 | 48 | 0 |
| 145° | 0 | 2 | 13 | 24 | 27 | 0 |
| 155° | 0 | 1 | 4 | 7 | 8 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P218282

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 479.3 | 479.3 | 479.3 | 479.3 | 479.3 |
| 2.5° | 486.5 | 482.9 | 476.9 | 476.9 | 473.2 |
| 5° | 484.1 | 481.7 | 475.7 | 475.7 | 472.0 |
| 7.5° | 481.7 | 479.3 | 472.0 | 473.2 | 469.6 |
| 10° | 476.9 | 474.5 | 468.4 | 469.6 | 466.0 |
| 12.5° | 470.8 | 468.4 | 463.6 | 464.8 | 461.2 |
| 15° | 463.6 | 462.4 | 457.5 | 460.0 | 456.3 |
| 17.5° | 455.1 | 453.9 | 450.3 | 453.9 | 451.5 |
| 20° | 445.5 | 445.5 | 443.1 | 447.9 | 445.5 |
| 22.5° | 434.6 | 434.6 | 433.4 | 440.6 | 438.2 |
| 25° | 423.7 | 423.7 | 425.0 | 433.4 | 432.2 |
| 27.5° | 411.7 | 412.9 | 416.5 | 426.2 | 425.0 |
| 30° | 398.4 | 400.8 | 406.8 | 417.7 | 417.7 |
| 32.5° | 383.9 | 386.3 | 396.0 | 409.3 | 409.3 |
| 35° | 369.4 | 373.0 | 386.3 | 398.4 | 400.8 |
| 37.5° | 352.5 | 358.6 | 374.2 | 388.7 | 391.2 |
| 40° | 336.8 | 345.3 | 362.2 | 379.1 | 382.7 |
| 42.5° | 319.9 | 330.8 | 351.3 | 370.6 | 374.2 |
| 45° | 303.0 | 316.3 | 339.2 | 359.8 | 364.6 |
| 47.5° | 286.1 | 300.6 | 328.4 | 350.1 | 357.3 |
| 50° | 266.8 | 284.9 | 315.1 | 340.4 | 346.5 |
| 52.5° | 248.7 | 269.2 | 303.0 | 329.6 | 338.0 |
| 55° | 229.4 | 254.7 | 290.9 | 319.9 | 328.4 |
| 57.5° | 212.5 | 237.8 | 277.7 | 310.3 | 318.7 |
| 60° | 193.2 | 220.9 | 265.6 | 298.2 | 307.9 |
| 62.5° | 173.8 | 206.4 | 253.5 | 288.5 | 299.4 |
| 65° | 154.5 | 189.5 | 241.5 | 277.7 | 288.5 |
| 67.5° | 136.4 | 173.8 | 228.2 | 266.8 | 278.9 |
| 70° | 117.1 | 158.2 | 216.1 | 255.9 | 268.0 |
| 72.5° | 99.0 | 143.7 | 205.2 | 245.1 | 258.4 |
| 75° | 80.9 | 129.2 | 193.2 | 234.2 | 247.5 |
| 77.5° | 64.0 | 115.9 | 181.1 | 224.5 | 239.0 |
| 80° | 45.9 | 102.6 | 170.2 | 213.7 | 228.2 |
| 82.5° | 31.4 | 90.5 | 160.6 | 204.0 | 217.3 |
| 85° | 18.1 | 79.7 | 149.7 | 194.4 | 207.6 |
| 87.5° | 7.2 | 70.0 | 138.8 | 183.5 | 198.0 |
| 90° | 0.0 | 61.6 | 130.4 | 175.1 | 188.3 |
| 92.5° | 0.0 | 54.3 | 121.9 | 165.4 | 179.9 |
| 95° | 1.2 | 48.3 | 113.5 | 156.9 | 171.4 |
| 97.5° | 0.0 | 42.3 | 106.2 | 148.5 | 161.8 |
| 100° | 0.0 | 38.6 | 99.0 | 140.0 | 153.3 |
| 102.5° | 0.0 | 33.8 | 91.8 | 131.6 | 144.9 |
| 105° | 0.0 | 30.2 | 84.5 | 123.1 | 135.2 |
| 107.5° | 0.0 | 27.8 | 78.5 | 115.9 | 126.8 |
| 110° | 0.0 | 24.1 | 72.4 | 108.7 | 119.5 |



TEST NUMBER: P218282

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 21.7 | 66.4 | 100.2 | 111.1 |
| 115° | 0.0 | 19.3 | 61.6 | 93.0 | 102.6 |
| 117.5° | 0.0 | 18.1 | 55.5 | 85.7 | 95.4 |
| 120° | 0.0 | 15.7 | 50.7 | 79.7 | 88.1 |
| 122.5° | 0.0 | 14.5 | 47.1 | 72.4 | 80.9 |
| 125° | 0.0 | 12.1 | 42.3 | 66.4 | 73.6 |
| 127.5° | 0.0 | 10.9 | 37.4 | 60.4 | 66.4 |
| 130° | 0.0 | 9.7 | 33.8 | 54.3 | 60.4 |
| 132.5° | 0.0 | 8.5 | 30.2 | 48.3 | 54.3 |
| 135° | 0.0 | 7.2 | 26.6 | 43.5 | 48.3 |
| 137.5° | 0.0 | 6.0 | 22.9 | 37.4 | 42.3 |
| 140° | 0.0 | 4.8 | 19.3 | 32.6 | 36.2 |
| 142.5° | 0.0 | 3.6 | 16.9 | 27.8 | 31.4 |
| 145° | 0.0 | 2.4 | 13.3 | 24.1 | 26.6 |
| 147.5° | 0.0 | 2.4 | 10.9 | 19.3 | 21.7 |
| 150° | 0.0 | 1.2 | 7.2 | 15.7 | 16.9 |
| 152.5° | 0.0 | 1.2 | 6.0 | 12.1 | 12.1 |
| 155° | 0.0 | 1.2 | 3.6 | 7.2 | 8.5 |
| 157.5° | 0.0 | 0.0 | 2.4 | 4.8 | 4.8 |
| 160° | 0.0 | 0.0 | 1.2 | 2.4 | 3.6 |
| 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)