

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: P218547

Luminaire Tested: **8TSNLED-LD5-101SL-RW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218547
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: 8TSNLED-LD5-101SL-RW-UNV-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12012.0 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.19 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')
CIE Type: Direct

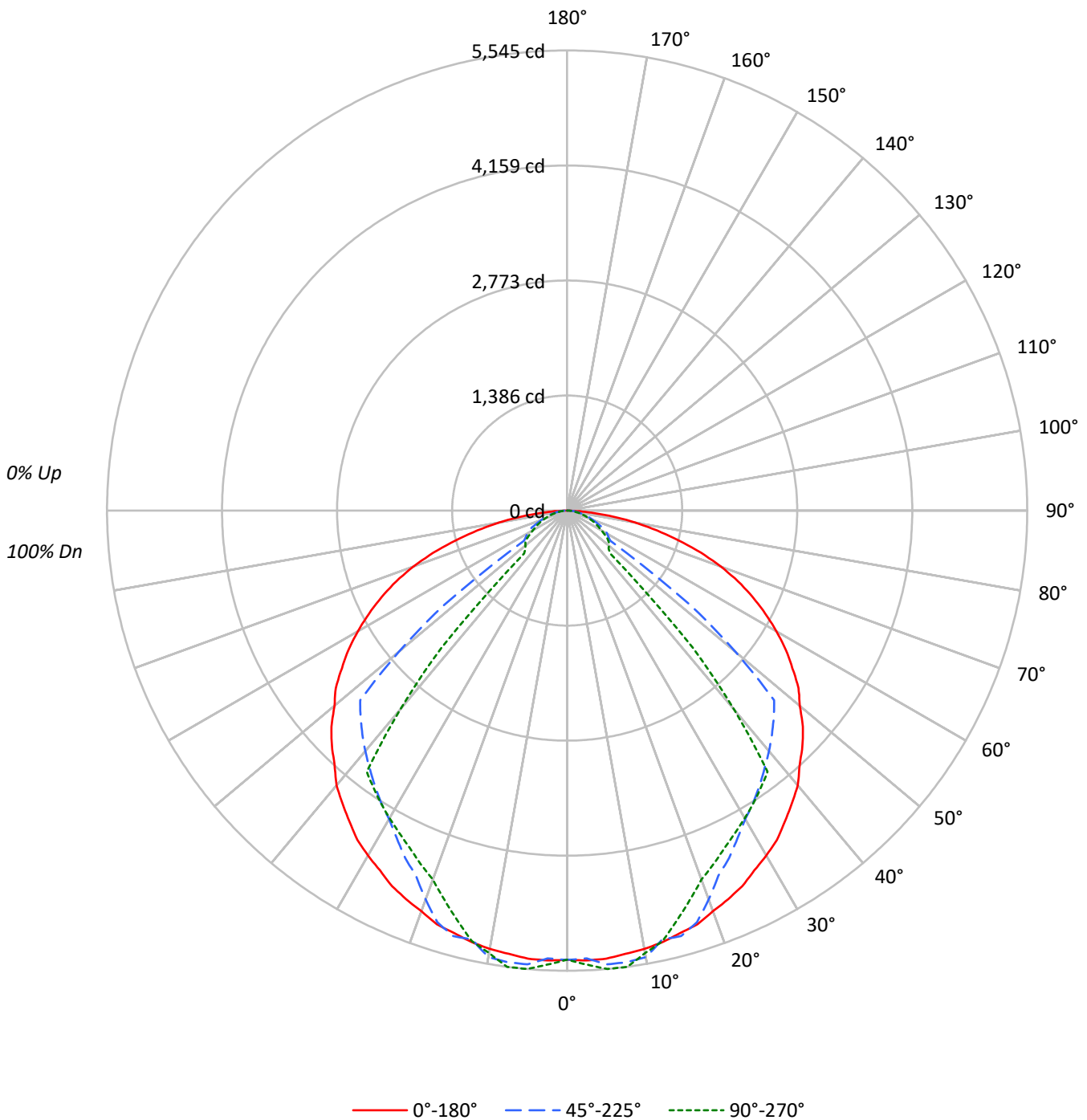
Input Watts (W): 85.64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P218547

CATALOG NUMBER: 8TSNLED-LD5-101SL-RW-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P218547

CATALOG NUMBER: 8TSNLED-LD5-101SL-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° | 43614 | 43614 | 43614 |
| 5° | 43752 | 41752 | 41237 |
| 10° | 43716 | 39650 | 37648 |
| 15° | 43706 | 37090 | 33633 |
| 20° | 43717 | 33863 | 29735 |
| 25° | 43963 | 30711 | 27197 |
| 30° | 44117 | 28182 | 25239 |
| 35° | 44338 | 26402 | 23559 |
| 40° | 44685 | 24787 | 17951 |
| 45° | 44755 | 23301 | 4176 |
| 50° | 44749 | 17857 | 3762 |
| 55° | 45208 | 4377 | 3443 |
| 60° | 45307 | 3993 | 2809 |
| 65° | 45045 | 3375 | 2317 |
| 70° | 43829 | 2622 | 1812 |
| 75° | 40168 | 1953 | 1319 |
| 80° | 34309 | 1313 | 828 |
| 85° | 21980 | 751 | 373 |



TEST NUMBER: P218547

CATALOG NUMBER: 8TSNLED-LD5-101SL-RW-UNV-L850-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 522.5 | 4.4 |
| 10°-20° | 1481.4 | 12.3 |
| 20°-30° | 2181.8 | 18.2 |
| 30°-40° | 2626.1 | 21.9 |
| 40°-50° | 2249.2 | 18.7 |
| 50°-60° | 1455.4 | 12.1 |
| 60°-70° | 967.4 | 8.1 |
| 70°-80° | 412.7 | 3.4 |
| 80°-90° | 115.4 | 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° | 4185.8 | 34.8 |
| 0°-40° | 6811.9 | 56.7 |
| 0°-60° | 10516.5 | 87.5 |
| 0°-90° | 12012.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12012.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 5413 | 5413 | 5413 | 5413 | 5413 | |
| 5° | 5420 | 5438 | 5488 | 5551 | 5545 | 515 |
| 15° | 5269 | 5413 | 5307 | 5194 | 5113 | 1490 |
| 25° | 4994 | 5025 | 4618 | 4517 | 4486 | 2300 |
| 35° | 4574 | 4398 | 4041 | 4072 | 4072 | 2866 |
| 45° | 4010 | 3565 | 3521 | 2149 | 733 | 3091 |
| 55° | 3314 | 2813 | 633 | 602 | 595 | 2964 |
| 65° | 2469 | 1773 | 451 | 388 | 382 | 2434 |
| 75° | 1391 | 326 | 232 | 207 | 200 | 1474 |
| 85° | 294 | 88 | 75 | 56 | 50 | 377 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P218547

CATALOG NUMBER: 8TSNLED-LD5-101SL-RW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 5413.3 | 5413.3 | 5413.3 | 5413.3 | 5413.3 |
| 2.5° | 5425.8 | 5407.1 | 5400.8 | 5469.7 | 5476.0 |
| 5° | 5419.6 | 5438.4 | 5488.5 | 5551.2 | 5544.9 |
| 7.5° | 5388.3 | 5450.9 | 5488.5 | 5582.5 | 5544.9 |
| 10° | 5363.2 | 5476.0 | 5463.4 | 5469.7 | 5413.3 |
| 12.5° | 5325.6 | 5432.1 | 5294.3 | 5388.3 | 5313.1 |
| 15° | 5269.2 | 5413.3 | 5306.8 | 5194.0 | 5112.6 |
| 17.5° | 5225.4 | 5375.7 | 5200.3 | 4930.9 | 4918.4 |
| 20° | 5137.6 | 5219.1 | 4987.3 | 4793.0 | 4730.4 |
| 22.5° | 5068.7 | 5162.7 | 4761.7 | 4630.1 | 4611.3 |
| 25° | 4993.5 | 5024.9 | 4617.6 | 4517.4 | 4486.0 |
| 27.5° | 4887.0 | 4949.7 | 4448.4 | 4398.3 | 4379.5 |
| 30° | 4799.3 | 4799.3 | 4291.8 | 4291.8 | 4279.3 |
| 32.5° | 4705.3 | 4598.8 | 4172.8 | 4179.0 | 4179.0 |
| 35° | 4573.8 | 4398.3 | 4041.2 | 4072.5 | 4072.5 |
| 37.5° | 4448.4 | 4154.0 | 3909.6 | 3959.7 | 3966.0 |
| 40° | 4323.1 | 3966.0 | 3784.3 | 3840.7 | 3139.0 |
| 42.5° | 4147.7 | 3759.2 | 3652.7 | 2957.3 | 2236.8 |
| 45° | 4009.9 | 3565.0 | 3521.2 | 2149.0 | 733.1 |
| 47.5° | 3853.2 | 3377.1 | 3383.3 | 682.9 | 676.7 |
| 50° | 3659.0 | 3182.8 | 2650.3 | 645.3 | 657.9 |
| 52.5° | 3514.9 | 3007.4 | 1867.1 | 626.5 | 632.8 |
| 55° | 3314.4 | 2813.2 | 632.8 | 601.5 | 595.2 |
| 57.5° | 3126.4 | 2631.5 | 588.9 | 557.6 | 532.6 |
| 60° | 2913.4 | 2437.2 | 557.6 | 495.0 | 476.2 |
| 62.5° | 2694.1 | 2243.0 | 513.8 | 438.6 | 426.0 |
| 65° | 2468.6 | 1773.1 | 451.1 | 388.5 | 382.2 |
| 67.5° | 2230.5 | 1165.4 | 382.2 | 344.6 | 338.3 |
| 70° | 1967.3 | 457.4 | 332.1 | 300.7 | 288.2 |
| 72.5° | 1691.7 | 394.7 | 281.9 | 256.9 | 244.4 |
| 75° | 1390.9 | 325.8 | 231.8 | 206.8 | 200.5 |
| 77.5° | 1109.0 | 244.4 | 188.0 | 162.9 | 156.6 |
| 80° | 827.0 | 181.7 | 144.1 | 125.3 | 119.0 |
| 82.5° | 563.9 | 131.6 | 106.5 | 87.7 | 81.5 |
| 85° | 294.5 | 87.7 | 75.2 | 56.4 | 50.1 |
| 87.5° | 112.8 | 56.4 | 43.9 | 25.1 | 25.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)