

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: P218136

Luminaire Tested: **8TSNLED-LD5-83SL-LC-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35685)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8TSNLED-LD5-83SL-LC-UNV-L835-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8522.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.59 / 1.17 / 1.18
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')
CIE Type: Direct

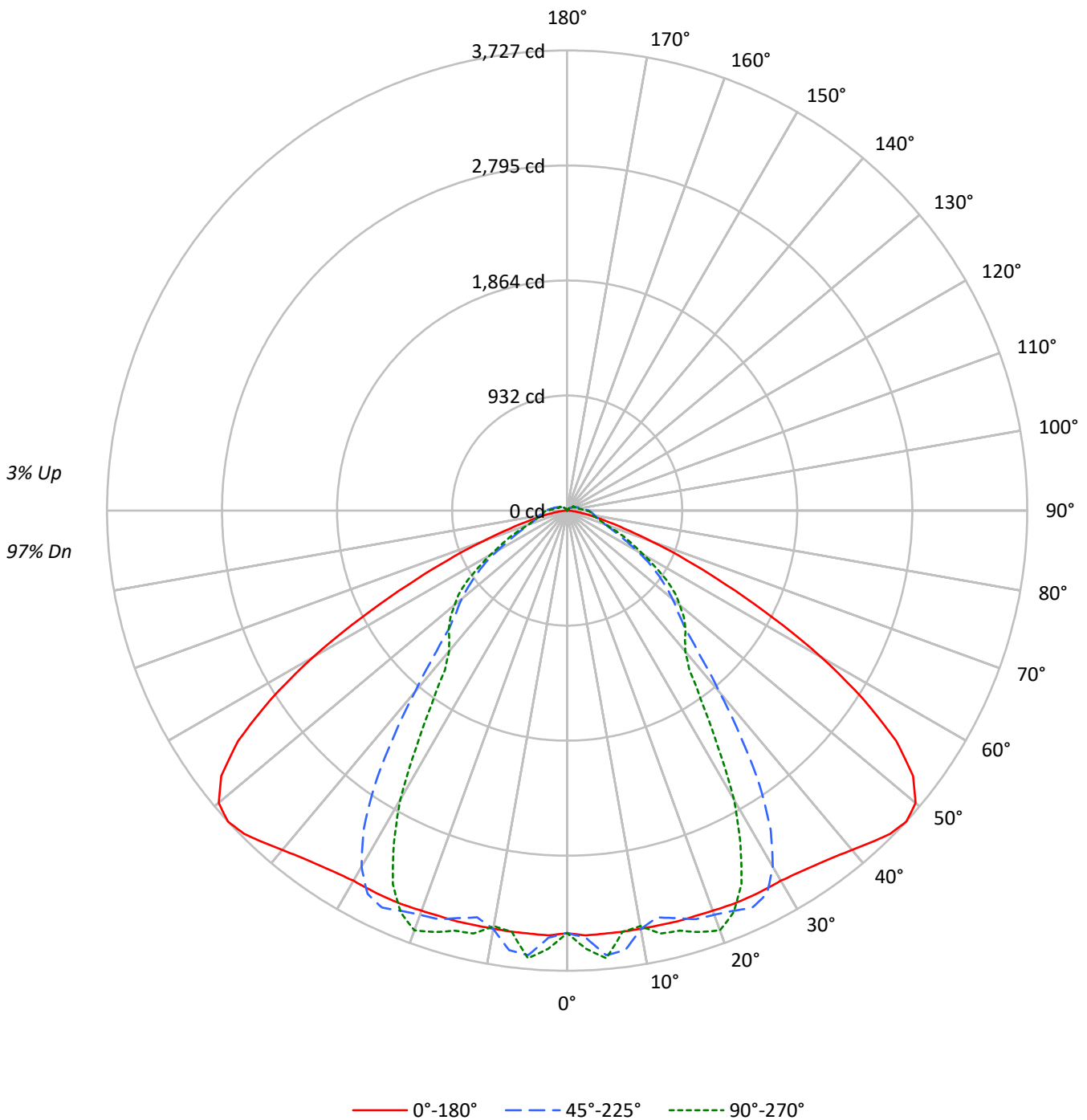
Input Watts (W): 61.16
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P218136

CATALOG NUMBER: 8TSNLED-LD5-83SL-LC-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P218136

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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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 99 | 99 | 99 | 97 | |
| 1 | 109 | 105 | 101 | 98 | 106 | 102 | 99 | 96 | 97 | 95 | 92 | 93 | 91 | 89 | 89 | 87 | 85 | 89 | 87 | 85 | 83 | |
| 2 | 100 | 93 | 87 | 82 | 98 | 91 | 85 | 81 | 87 | 82 | 78 | 83 | 79 | 76 | 80 | 77 | 74 | 80 | 77 | 74 | 72 | |
| 3 | 93 | 83 | 76 | 70 | 90 | 81 | 75 | 69 | 78 | 72 | 67 | 75 | 70 | 66 | 72 | 68 | 64 | 72 | 68 | 64 | 62 | |
| 4 | 85 | 75 | 67 | 60 | 83 | 73 | 66 | 60 | 70 | 64 | 59 | 68 | 62 | 58 | 65 | 60 | 56 | 65 | 60 | 56 | 54 | |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 58 | 53 | 64 | 57 | 52 | 61 | 55 | 51 | 59 | 54 | 50 | 59 | 54 | 50 | 48 | |
| 6 | 73 | 61 | 53 | 47 | 71 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 45 | 54 | 49 | 45 | 54 | 49 | 45 | 43 | |
| 7 | 68 | 56 | 48 | 42 | 66 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 50 | 44 | 40 | 38 | |
| 8 | 64 | 51 | 43 | 38 | 62 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 46 | 40 | 36 | 46 | 40 | 36 | 34 | |
| 9 | 60 | 47 | 39 | 34 | 58 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 31 | |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 40 | 34 | 30 | 40 | 34 | 30 | 28 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 27571 | 27571 | 27571 |
| 5° | 27767 | 27492 | 27070 |
| 10° | 28036 | 24962 | 23769 |
| 15° | 28566 | 23887 | 23171 |
| 20° | 29342 | 23650 | 22744 |
| 25° | 30473 | 23601 | 20244 |
| 30° | 31818 | 21870 | 15941 |
| 35° | 33976 | 17772 | 11046 |
| 40° | 37084 | 12564 | 8501 |
| 45° | 41308 | 8943 | 7723 |
| 50° | 45050 | 7519 | 6806 |
| 55° | 44357 | 6181 | 5674 |
| 60° | 37015 | 4682 | 4242 |
| 65° | 25772 | 3392 | 3119 |
| 70° | 16219 | 2581 | 2137 |
| 75° | 9316 | 2204 | 1692 |
| 80° | 5426 | 2065 | 1455 |
| 85° | 2605 | 2004 | 1459 |



TEST NUMBER: P218136

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 336.4 | 3.9 |
| 10°-20° | 990.7 | 11.6 |
| 20°-30° | 1574.2 | 18.5 |
| 30°-40° | 1697.4 | 19.9 |
| 40°-50° | 1463.0 | 17.2 |
| 50°-60° | 1107.6 | 13.0 |
| 60°-70° | 598.3 | 7.0 |
| 70°-80° | 284.2 | 3.3 |
| 80°-90° | 178.4 | 2.1 |
| 90°-100° | 113.5 | 1.3 |
| 100°-110° | 72.7 | 0.9 |
| 110°-120° | 48.6 | 0.6 |
| 120°-130° | 32.1 | 0.4 |
| 130°-140° | 15.7 | 0.2 |
| 140°-150° | 6.7 | 0.1 |
| 150°-160° | 2.4 | 0.0 |
| 160°-170° | 0.2 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 2901.3 | 34.0 |
| 0°-40° | 4598.6 | 54.0 |
| 0°-60° | 7169.1 | 84.1 |
| 0°-90° | 8230.1 | 96.6 |
| 90°-120° | 234.8 | 2.8 |
| 90°-150° | 289.3 | 3.4 |
| 90°-180° | 292.0 | 3.4 |
| 0°-180° | 8522.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3422 | 3422 | 3422 | 3422 | 3422 | |
| 5° | 3440 | 3514 | 3614 | 3662 | 3640 | 328 |
| 15° | 3444 | 3535 | 3418 | 3535 | 3522 | 976 |
| 25° | 3461 | 3396 | 3548 | 3453 | 3339 | 1601 |
| 35° | 3505 | 3374 | 2720 | 2079 | 1909 | 2208 |
| 45° | 3701 | 2319 | 1351 | 1338 | 1356 | 2849 |
| 55° | 3252 | 1003 | 894 | 976 | 981 | 2829 |
| 65° | 1412 | 427 | 453 | 510 | 514 | 1450 |
| 75° | 323 | 222 | 262 | 262 | 257 | 380 |
| 85° | 35 | 135 | 200 | 200 | 196 | 50 |
| 90° | 0 | 105 | 174 | 170 | 157 | 2 |
| 95° | 0 | 83 | 140 | 126 | 118 | 0 |
| 105° | 0 | 52 | 96 | 87 | 78 | 0 |
| 115° | 0 | 30 | 65 | 65 | 65 | 0 |
| 125° | 0 | 17 | 44 | 57 | 52 | 0 |
| 135° | 0 | 9 | 26 | 30 | 30 | 0 |
| 145° | 0 | 4 | 13 | 17 | 13 | 0 |
| 155° | 0 | 4 | 4 | 9 | 4 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P218136

CATALOG NUMBER: 8TSNLED-LD5-83SL-LC-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3422.1 | 3422.1 | 3422.1 | 3422.1 | 3422.1 |
| 2.5° | 3443.9 | 3448.2 | 3461.3 | 3526.7 | 3552.8 |
| 5° | 3439.5 | 3513.6 | 3613.9 | 3661.8 | 3640.0 |
| 7.5° | 3439.5 | 3592.1 | 3592.1 | 3500.5 | 3439.5 |
| 10° | 3439.5 | 3635.7 | 3439.5 | 3422.1 | 3417.7 |
| 12.5° | 3439.5 | 3609.5 | 3374.1 | 3496.2 | 3509.2 |
| 15° | 3443.9 | 3535.4 | 3417.7 | 3535.4 | 3522.3 |
| 17.5° | 3443.9 | 3448.2 | 3470.0 | 3561.6 | 3579.0 |
| 20° | 3448.2 | 3391.5 | 3483.1 | 3631.3 | 3618.2 |
| 22.5° | 3456.9 | 3382.8 | 3509.2 | 3600.8 | 3522.3 |
| 25° | 3461.3 | 3395.9 | 3548.5 | 3452.6 | 3339.2 |
| 27.5° | 3461.3 | 3413.3 | 3500.5 | 3225.9 | 3038.4 |
| 30° | 3461.3 | 3422.1 | 3330.5 | 2912.0 | 2702.8 |
| 32.5° | 3478.7 | 3413.3 | 3069.0 | 2502.2 | 2275.6 |
| 35° | 3504.9 | 3374.1 | 2720.2 | 2079.4 | 1909.4 |
| 37.5° | 3539.8 | 3269.5 | 2310.4 | 1739.4 | 1626.0 |
| 40° | 3587.7 | 3042.8 | 1918.1 | 1521.4 | 1486.5 |
| 42.5° | 3644.4 | 2711.5 | 1595.5 | 1412.4 | 1412.4 |
| 45° | 3701.1 | 2319.2 | 1351.4 | 1338.3 | 1355.7 |
| 47.5° | 3727.2 | 1935.5 | 1216.2 | 1264.2 | 1281.6 |
| 50° | 3683.6 | 1578.1 | 1116.0 | 1181.4 | 1190.1 |
| 52.5° | 3531.0 | 1259.8 | 1002.6 | 1081.1 | 1102.9 |
| 55° | 3252.0 | 1002.6 | 893.7 | 976.5 | 980.8 |
| 57.5° | 2846.6 | 797.8 | 780.3 | 845.7 | 841.3 |
| 60° | 2380.2 | 645.2 | 653.9 | 719.3 | 719.3 |
| 62.5° | 1878.9 | 523.1 | 549.3 | 605.9 | 601.6 |
| 65° | 1412.4 | 427.2 | 453.4 | 510.0 | 514.4 |
| 67.5° | 1041.9 | 353.1 | 383.6 | 422.9 | 414.1 |
| 70° | 728.0 | 296.4 | 326.9 | 348.7 | 340.0 |
| 72.5° | 483.9 | 252.8 | 287.7 | 296.4 | 292.1 |
| 75° | 322.6 | 222.3 | 261.6 | 261.6 | 257.2 |
| 77.5° | 209.2 | 196.2 | 244.1 | 239.8 | 231.0 |
| 80° | 130.8 | 174.4 | 226.7 | 218.0 | 209.2 |
| 82.5° | 78.5 | 152.6 | 213.6 | 204.9 | 196.2 |
| 85° | 34.9 | 135.1 | 200.5 | 200.5 | 196.2 |
| 87.5° | 13.1 | 122.1 | 187.5 | 191.8 | 183.1 |
| 90° | 0.0 | 104.6 | 174.4 | 170.0 | 156.9 |
| 92.5° | 0.0 | 95.9 | 156.9 | 143.9 | 135.1 |
| 95° | 0.0 | 82.8 | 139.5 | 126.4 | 117.7 |
| 97.5° | 0.0 | 74.1 | 126.4 | 113.3 | 104.6 |
| 100° | 0.0 | 65.4 | 113.3 | 100.3 | 91.5 |
| 102.5° | 0.0 | 56.7 | 104.6 | 91.5 | 87.2 |
| 105° | 0.0 | 52.3 | 95.9 | 87.2 | 78.5 |
| 107.5° | 0.0 | 48.0 | 87.2 | 78.5 | 74.1 |
| 110° | 0.0 | 39.2 | 78.5 | 74.1 | 69.7 |



TEST NUMBER: P218136

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 34.9 | 69.7 | 69.7 | 69.7 |
| 115° | 0.0 | 30.5 | 65.4 | 65.4 | 65.4 |
| 117.5° | 0.0 | 26.2 | 56.7 | 65.4 | 65.4 |
| 120° | 0.0 | 26.2 | 52.3 | 61.0 | 61.0 |
| 122.5° | 0.0 | 21.8 | 48.0 | 61.0 | 61.0 |
| 125° | 0.0 | 17.4 | 43.6 | 56.7 | 52.3 |
| 127.5° | 0.0 | 13.1 | 39.2 | 48.0 | 48.0 |
| 130° | 0.0 | 13.1 | 34.9 | 43.6 | 39.2 |
| 132.5° | 0.0 | 8.7 | 30.5 | 34.9 | 34.9 |
| 135° | 0.0 | 8.7 | 26.2 | 30.5 | 30.5 |
| 137.5° | 0.0 | 8.7 | 21.8 | 26.2 | 21.8 |
| 140° | 0.0 | 4.4 | 17.4 | 21.8 | 17.4 |
| 142.5° | 0.0 | 4.4 | 17.4 | 21.8 | 17.4 |
| 145° | 0.0 | 4.4 | 13.1 | 17.4 | 13.1 |
| 147.5° | 0.0 | 4.4 | 8.7 | 13.1 | 13.1 |
| 150° | 0.0 | 4.4 | 8.7 | 13.1 | 8.7 |
| 152.5° | 0.0 | 4.4 | 8.7 | 8.7 | 4.4 |
| 155° | 0.0 | 4.4 | 4.4 | 8.7 | 4.4 |
| 157.5° | 0.0 | 4.4 | 4.4 | 4.4 | 4.4 |
| 160° | 4.4 | 4.4 | 4.4 | 4.4 | 0.0 |
| 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)