

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: P218510

Luminaire Tested: **8TSNLED-LD5-120HL-RM-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218510
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: 8TSNLED-LD5-120HL-RM-UNV-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10464.1 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.46 / 0.67
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')
CIE Type: Direct

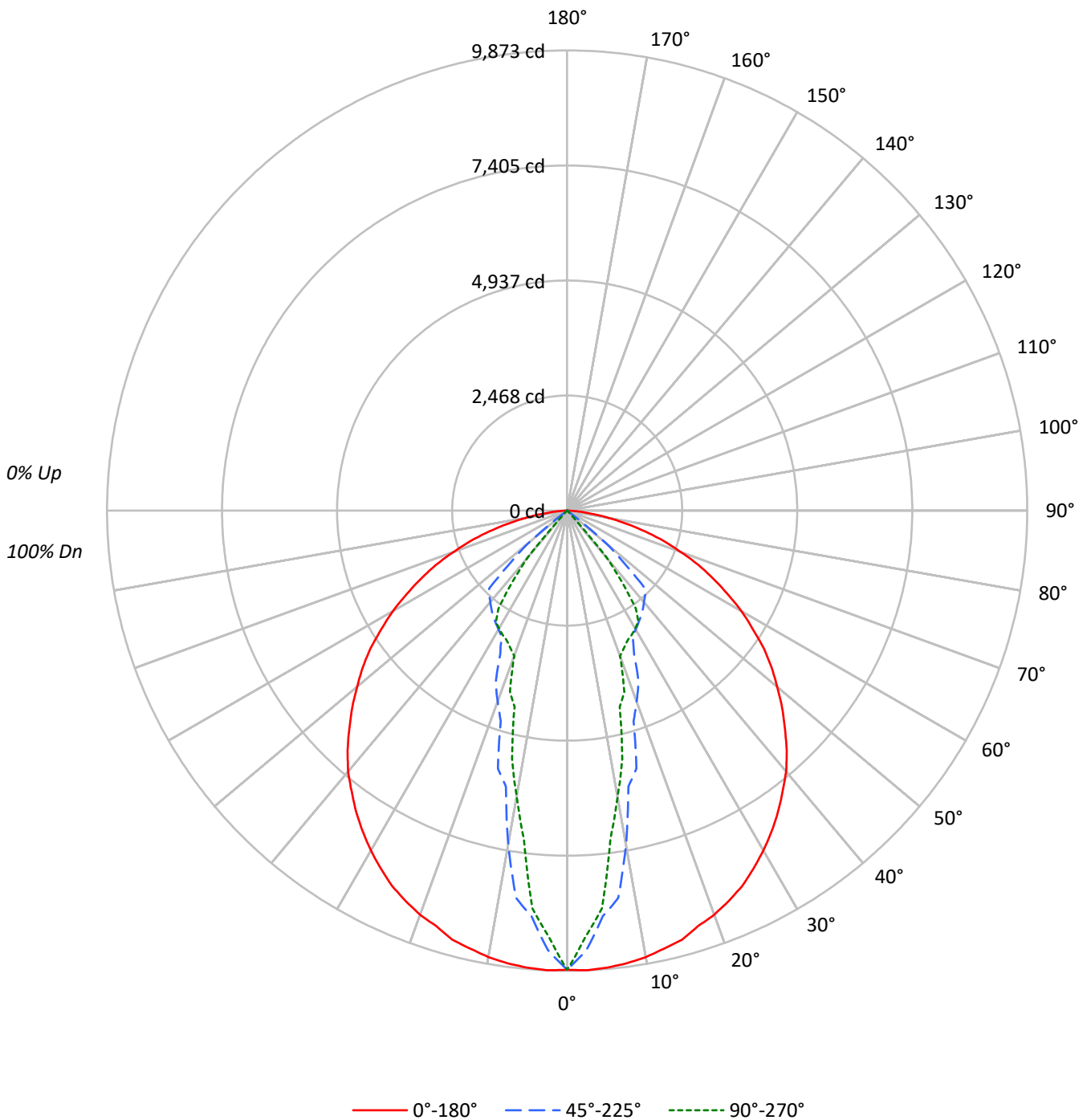
Input Watts (W): 85.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P218510

CATALOG NUMBER: 8TSNLED-LD5-120HL-RM-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P218510

CATALOG NUMBER: 8TSNLED-LD5-120HL-RM-UNV-L830-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 | 111 | 108 | 104 | 101 | 109 | 105 | 103 | 100 | 101 | 99 | 97 | 98 | 96 | 94 | 94 | 92 | 91 | 89 | | | | | 89 | | | |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 81 | 79 | | | | | 79 | | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 84 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | 70 | | | |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 71 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 62 | | | | | 62 | | | |
| 5 | 84 | 73 | 66 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | 68 | 63 | 59 | 67 | 62 | 58 | 56 | | | | | 56 | | | |
| 6 | 78 | 67 | 60 | 54 | 77 | 66 | 59 | 54 | 65 | 58 | 54 | 63 | 57 | 53 | 62 | 57 | 53 | 51 | | | | | 51 | | | |
| 7 | 74 | 62 | 54 | 49 | 72 | 61 | 54 | 49 | 60 | 53 | 49 | 58 | 53 | 48 | 57 | 52 | 48 | 46 | | | | | 46 | | | |
| 8 | 69 | 57 | 50 | 45 | 68 | 57 | 50 | 45 | 56 | 49 | 45 | 54 | 49 | 44 | 53 | 48 | 44 | 43 | | | | | 43 | | | |
| 9 | 65 | 54 | 46 | 42 | 64 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 | | | | | 39 | | | |
| 10 | 62 | 50 | 43 | 38 | 60 | 50 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 | | | | | 36 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 79379 | 79379 | 79379 |
| 5° | 79455 | 66484 | 63718 |
| 10° | 79277 | 52783 | 43336 |
| 15° | 79037 | 40051 | 28680 |
| 20° | 78499 | 29568 | 20856 |
| 25° | 78236 | 22605 | 18612 |
| 30° | 77410 | 19329 | 17212 |
| 35° | 76485 | 18042 | 14863 |
| 40° | 75542 | 16795 | 7462 |
| 45° | 73722 | 15629 | 29 |
| 50° | 71938 | 7429 | 0 |
| 55° | 70228 | 245 | 0 |
| 60° | 67171 | 181 | 0 |
| 65° | 63126 | 76 | 0 |
| 70° | 57691 | 40 | 0 |
| 75° | 49953 | 43 | 34 |
| 80° | 36931 | 46 | 35 |
| 85° | 19248 | 51 | 38 |



TEST NUMBER: P218510

CATALOG NUMBER: 8TSNLED-LD5-120HL-RM-UNV-L830-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 813.1 | 7.8 |
| 10°-20° | 1752.8 | 16.8 |
| 20°-30° | 2091.1 | 20.0 |
| 30°-40° | 2225.0 | 21.3 |
| 40°-50° | 1625.6 | 15.5 |
| 50°-60° | 1038.3 | 9.9 |
| 60°-70° | 625.2 | 6.0 |
| 70°-80° | 243.7 | 2.3 |
| 80°-90° | 49.5 | 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° | 4657.0 | 44.5 |
| 0°-40° | 6881.9 | 65.8 |
| 0°-60° | 9545.8 | 91.2 |
| 0°-90° | 10464.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 10464.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 9852 | 9852 | 9852 | 9852 | 9852 | |
| 5° | 9842 | 9362 | 8740 | 8583 | 8568 | 936 |
| 15° | 9529 | 8128 | 5730 | 4466 | 4360 | 2684 |
| 25° | 8886 | 5665 | 3399 | 3095 | 3070 | 4089 |
| 35° | 7890 | 3743 | 2762 | 2762 | 2569 | 4936 |
| 45° | 6605 | 2423 | 2362 | 10 | 5 | 5102 |
| 55° | 5149 | 1912 | 35 | 5 | 0 | 4584 |
| 65° | 3460 | 779 | 10 | 5 | 0 | 3423 |
| 75° | 1730 | 40 | 5 | 5 | 5 | 1827 |
| 85° | 258 | 5 | 5 | 5 | 5 | 359 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P218510

CATALOG NUMBER: 8TSNLED-LD5-120HL-RM-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 9852.4 | 9852.4 | 9852.4 | 9852.4 | 9852.4 |
| 2.5° | 9872.6 | 9806.9 | 9442.7 | 9291.0 | 9144.3 |
| 5° | 9842.3 | 9361.8 | 8739.7 | 8582.9 | 8567.7 |
| 7.5° | 9796.7 | 8911.6 | 8385.6 | 7485.4 | 7106.1 |
| 10° | 9725.9 | 8618.3 | 7273.0 | 6514.3 | 6231.1 |
| 12.5° | 9624.8 | 8183.3 | 6064.2 | 5629.2 | 5462.3 |
| 15° | 9528.7 | 8127.7 | 5730.4 | 4465.9 | 4359.7 |
| 17.5° | 9346.6 | 6994.8 | 4734.0 | 4197.9 | 4076.5 |
| 20° | 9225.2 | 6478.9 | 4354.7 | 3641.5 | 3317.8 |
| 22.5° | 9063.4 | 6175.4 | 4005.7 | 3312.8 | 3186.3 |
| 25° | 8886.4 | 5664.6 | 3398.8 | 3095.3 | 3070.0 |
| 27.5° | 8658.8 | 4981.8 | 3044.7 | 3014.4 | 3004.3 |
| 30° | 8421.1 | 4228.2 | 2943.6 | 2933.5 | 2918.3 |
| 32.5° | 8163.1 | 3929.8 | 2852.5 | 2852.5 | 2837.4 |
| 35° | 7890.0 | 3742.7 | 2761.5 | 2761.5 | 2569.3 |
| 37.5° | 7596.6 | 3505.0 | 2670.5 | 2670.5 | 1932.0 |
| 40° | 7308.4 | 3004.3 | 2564.2 | 1780.3 | 1304.9 |
| 42.5° | 6974.6 | 2594.6 | 2473.2 | 1244.2 | 10.1 |
| 45° | 6605.3 | 2422.6 | 2361.9 | 10.1 | 5.1 |
| 47.5° | 6256.4 | 2301.2 | 1608.3 | 5.1 | 0.0 |
| 50° | 5882.1 | 2169.7 | 1102.6 | 5.1 | 0.0 |
| 52.5° | 5528.1 | 2048.4 | 50.6 | 5.1 | 0.0 |
| 55° | 5148.7 | 1911.8 | 35.4 | 5.1 | 0.0 |
| 57.5° | 4718.8 | 1780.3 | 30.3 | 5.1 | 0.0 |
| 60° | 4319.3 | 1638.7 | 25.3 | 5.1 | 0.0 |
| 62.5° | 3879.2 | 1390.9 | 15.2 | 5.1 | 0.0 |
| 65° | 3459.5 | 778.9 | 10.1 | 5.1 | 0.0 |
| 67.5° | 3044.7 | 126.4 | 10.1 | 5.1 | 0.0 |
| 70° | 2589.5 | 86.0 | 5.1 | 5.1 | 0.0 |
| 72.5° | 2169.7 | 65.7 | 5.1 | 5.1 | 5.1 |
| 75° | 1729.7 | 40.5 | 5.1 | 5.1 | 5.1 |
| 77.5° | 1294.8 | 25.3 | 5.1 | 5.1 | 5.1 |
| 80° | 890.2 | 15.2 | 5.1 | 5.1 | 5.1 |
| 82.5° | 536.1 | 5.1 | 5.1 | 5.1 | 5.1 |
| 85° | 257.9 | 5.1 | 5.1 | 5.1 | 5.1 |
| 87.5° | 80.9 | 5.1 | 5.1 | 5.1 | 5.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)