

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: P218622

Luminaire Tested: **8TSNLED-LD5-120HL-RW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35747)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8TSNLED-LD5-120HL-RW-UNV-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11364.0 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 0.85 / 0.95
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')
CIE Type: Direct

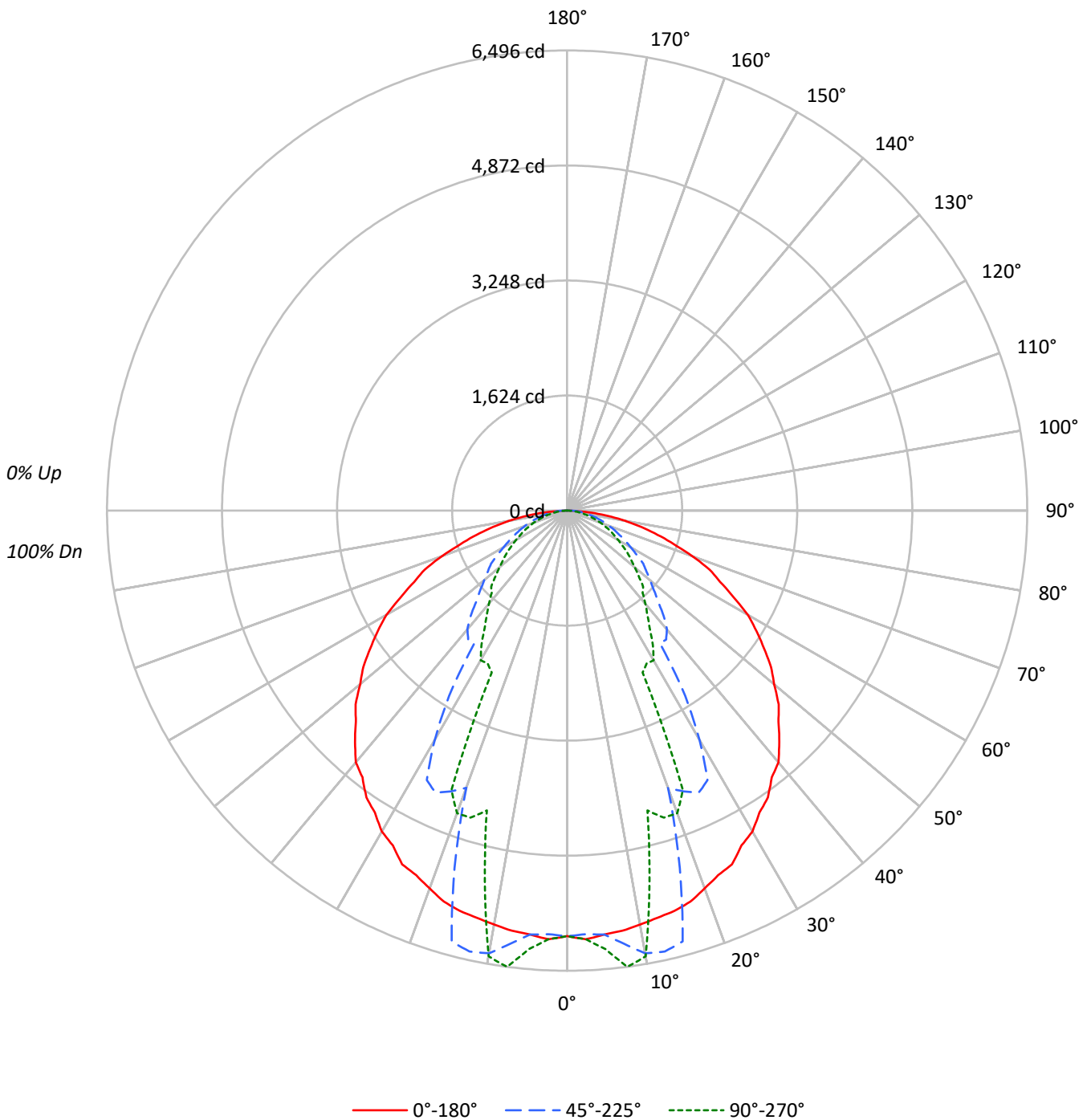
Input Watts (W): 85.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P218622

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Luminous Intensity Polar Plot





TEST NUMBER: P218622

CATALOG NUMBER: 8TSNLED-LD5-120HL-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 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 88 | | | | | 85 | | | | |
| 2 | 101 | 93 | 87 | 81 | 98 | 91 | 85 | 80 | 88 | 83 | 79 | 84 | 80 | 77 | 81 | 78 | 75 | | | | | 73 | | | | |
| 3 | 93 | 83 | 75 | 69 | 90 | 81 | 74 | 69 | 78 | 72 | 67 | 76 | 71 | 66 | 73 | 69 | 65 | | | | | 63 | | | | |
| 4 | 86 | 74 | 66 | 60 | 83 | 73 | 65 | 60 | 71 | 64 | 59 | 68 | 63 | 58 | 66 | 61 | 57 | | | | | 55 | | | | |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 58 | 52 | 64 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | | | | | 49 | | | | |
| 6 | 74 | 61 | 53 | 47 | 72 | 60 | 52 | 47 | 59 | 52 | 46 | 57 | 51 | 46 | 55 | 50 | 46 | | | | | 44 | | | | |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | | | | | 39 | | | | |
| 8 | 64 | 52 | 44 | 38 | 63 | 51 | 43 | 38 | 50 | 43 | 38 | 49 | 42 | 38 | 47 | 42 | 37 | | | | | 36 | | | | |
| 9 | 61 | 48 | 40 | 35 | 59 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 34 | 44 | 38 | 34 | | | | | 33 | | | | |
| 10 | 57 | 45 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | 41 | 36 | 32 | | | | | 30 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 48403 | 48403 | 48403 |
| 5° | 48499 | 45689 | 46210 |
| 10° | 48377 | 46061 | 44442 |
| 15° | 48540 | 44021 | 28821 |
| 20° | 48294 | 28291 | 28574 |
| 25° | 48505 | 29220 | 15285 |
| 30° | 48084 | 24576 | 14400 |
| 35° | 47889 | 14945 | 11751 |
| 40° | 47950 | 14348 | 9836 |
| 45° | 47083 | 12000 | 8645 |
| 50° | 46640 | 10271 | 7135 |
| 55° | 46283 | 9071 | 6016 |
| 60° | 45799 | 7422 | 4929 |
| 65° | 43509 | 6137 | 4039 |
| 70° | 41826 | 4973 | 3165 |
| 75° | 38277 | 3864 | 2254 |
| 80° | 34168 | 2774 | 1456 |
| 85° | 25696 | 1764 | 631 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 586.4 | 5.2 |
| 10°-20° | 1570.6 | 13.8 |
| 20°-30° | 2031.9 | 17.9 |
| 30°-40° | 1929.5 | 17.0 |
| 40°-50° | 1857.3 | 16.3 |
| 50°-60° | 1475.6 | 13.0 |
| 60°-70° | 1073.8 | 9.4 |
| 70°-80° | 624.7 | 5.5 |
| 80°-90° | 214.2 | 1.9 |
| 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° | 4188.8 | 36.9 |
| 0°-40° | 6118.3 | 53.8 |
| 0°-60° | 9451.3 | 83.2 |
| 0°-90° | 11364.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 11364.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 6008 | 6008 | 6008 | 6008 | 6008 | |
| 5° | 6008 | 5994 | 6006 | 6148 | 6214 | 572 |
| 15° | 5852 | 6127 | 6298 | 4918 | 4381 | 1650 |
| 25° | 5509 | 5843 | 4393 | 3547 | 2521 | 2524 |
| 35° | 4940 | 3803 | 2288 | 2125 | 2031 | 3083 |
| 45° | 4218 | 3587 | 1813 | 1536 | 1518 | 3269 |
| 55° | 3393 | 2042 | 1312 | 1068 | 1040 | 3037 |
| 65° | 2384 | 1263 | 820 | 690 | 666 | 2382 |
| 75° | 1325 | 666 | 458 | 376 | 343 | 1406 |
| 85° | 344 | 279 | 176 | 116 | 85 | 401 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P218622

CATALOG NUMBER: 8TSNLED-LD5-120HL-RW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 6007.7 | 6007.7 | 6007.7 | 6007.7 | 6007.7 |
| 2.5° | 6057.9 | 6011.2 | 5985.2 | 5988.7 | 6056.1 |
| 5° | 6007.7 | 5993.9 | 6006.0 | 6147.9 | 6213.6 |
| 7.5° | 5981.7 | 5952.3 | 6166.9 | 6410.9 | 6495.7 |
| 10° | 5935.0 | 6016.4 | 6346.8 | 6447.2 | 6390.1 |
| 12.5° | 5886.6 | 6064.8 | 6374.5 | 5722.2 | 5364.0 |
| 15° | 5852.0 | 6127.1 | 6298.4 | 4917.6 | 4381.2 |
| 17.5° | 5787.9 | 6166.9 | 5291.3 | 4367.3 | 4545.6 |
| 20° | 5675.5 | 6147.9 | 4166.6 | 4554.2 | 4545.6 |
| 22.5° | 5571.7 | 6040.6 | 4289.5 | 4466.0 | 4267.0 |
| 25° | 5509.4 | 5843.3 | 4393.3 | 3547.2 | 2521.1 |
| 27.5° | 5329.4 | 5360.6 | 4291.2 | 2462.3 | 2432.8 |
| 30° | 5230.8 | 4889.9 | 3742.7 | 2417.3 | 2441.5 |
| 32.5° | 5054.3 | 4348.3 | 3100.7 | 2329.0 | 2251.2 |
| 35° | 4940.1 | 3803.3 | 2287.5 | 2124.8 | 2031.4 |
| 37.5° | 4746.3 | 3830.9 | 2294.4 | 1948.3 | 1860.1 |
| 40° | 4639.0 | 3855.2 | 2190.6 | 1778.8 | 1719.9 |
| 42.5° | 4433.1 | 3763.5 | 2017.6 | 1640.4 | 1576.3 |
| 45° | 4218.5 | 3587.0 | 1813.4 | 1536.5 | 1517.5 |
| 47.5° | 4049.0 | 3090.4 | 1662.8 | 1437.9 | 1368.7 |
| 50° | 3813.6 | 2457.1 | 1524.4 | 1306.4 | 1247.6 |
| 52.5° | 3628.5 | 2092.0 | 1411.9 | 1192.2 | 1136.8 |
| 55° | 3393.2 | 2041.8 | 1311.6 | 1067.6 | 1039.9 |
| 57.5° | 3171.7 | 1868.8 | 1162.8 | 969.0 | 925.7 |
| 60° | 2945.0 | 1654.2 | 1036.5 | 873.8 | 835.7 |
| 62.5° | 2649.1 | 1431.0 | 925.7 | 776.9 | 740.6 |
| 65° | 2384.4 | 1263.1 | 820.2 | 690.4 | 666.2 |
| 67.5° | 2178.5 | 1133.4 | 725.0 | 605.6 | 572.7 |
| 70° | 1877.4 | 988.0 | 629.8 | 524.3 | 503.5 |
| 72.5° | 1579.8 | 806.3 | 541.6 | 451.6 | 413.5 |
| 75° | 1325.4 | 666.2 | 458.5 | 375.5 | 342.6 |
| 77.5° | 1076.3 | 557.2 | 380.7 | 308.0 | 273.4 |
| 80° | 823.6 | 453.3 | 304.5 | 240.5 | 209.4 |
| 82.5° | 583.1 | 361.6 | 238.8 | 174.8 | 147.1 |
| 85° | 344.3 | 278.6 | 176.5 | 115.9 | 84.8 |
| 87.5° | 136.7 | 209.4 | 115.9 | 57.1 | 29.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)