

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: P218245

Luminaire Tested: **8TSNLED-LD5-60SL-LN-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35686)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8TSNLED-LD5-60SL-LN-UNV-L840-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6336.0 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.04 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')
CIE Type: Direct

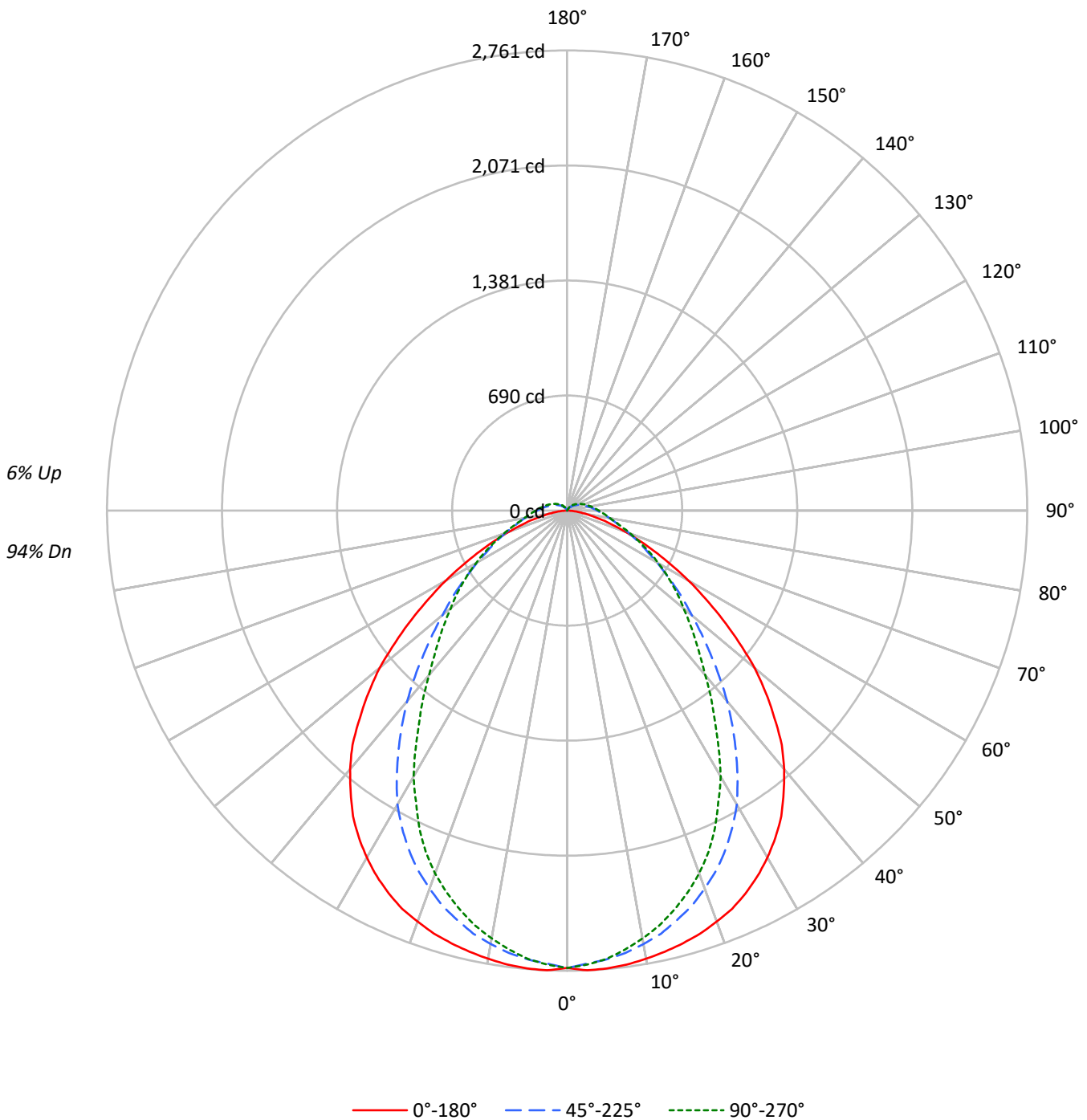
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P218245

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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 94 |
| 1 | 108 | 103 | 99 | 95 | 105 | 100 | 97 | 93 | 95 | 92 | 89 | 90 | 88 | 86 | 86 | 84 | 82 | 80 |
| 2 | 99 | 91 | 85 | 79 | 96 | 89 | 83 | 78 | 84 | 79 | 75 | 80 | 76 | 73 | 77 | 73 | 70 | 68 |
| 3 | 91 | 81 | 73 | 67 | 88 | 79 | 72 | 66 | 75 | 69 | 64 | 72 | 67 | 63 | 69 | 64 | 61 | 59 |
| 4 | 84 | 73 | 64 | 58 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 65 | 59 | 55 | 62 | 57 | 53 | 51 |
| 5 | 77 | 65 | 57 | 51 | 75 | 64 | 56 | 50 | 61 | 54 | 49 | 59 | 53 | 48 | 56 | 51 | 47 | 45 |
| 6 | 72 | 59 | 51 | 45 | 70 | 58 | 50 | 44 | 56 | 49 | 44 | 54 | 47 | 43 | 52 | 46 | 42 | 40 |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 45 | 40 | 51 | 44 | 39 | 49 | 43 | 38 | 47 | 42 | 38 | 36 |
| 8 | 63 | 50 | 42 | 36 | 61 | 49 | 41 | 36 | 47 | 40 | 35 | 45 | 39 | 35 | 44 | 38 | 34 | 32 |
| 9 | 59 | 46 | 38 | 33 | 57 | 45 | 38 | 33 | 43 | 37 | 32 | 42 | 36 | 32 | 41 | 35 | 31 | 29 |
| 10 | 55 | 42 | 35 | 30 | 54 | 42 | 35 | 30 | 40 | 34 | 29 | 39 | 33 | 29 | 38 | 32 | 29 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 22108 | 22108 | 22108 |
| 5° | 22259 | 20569 | 20084 |
| 10° | 22257 | 19163 | 18132 |
| 15° | 22289 | 17778 | 16316 |
| 20° | 22327 | 16387 | 14563 |
| 25° | 22307 | 14942 | 12730 |
| 30° | 22094 | 13371 | 10868 |
| 35° | 21713 | 11537 | 8941 |
| 40° | 20945 | 9774 | 7369 |
| 45° | 19635 | 8041 | 6181 |
| 50° | 17963 | 6567 | 5212 |
| 55° | 15526 | 5426 | 4442 |
| 60° | 13082 | 4446 | 3721 |
| 65° | 10478 | 3696 | 3076 |
| 70° | 8254 | 3110 | 2539 |
| 75° | 6362 | 2644 | 2108 |
| 80° | 4572 | 2341 | 1811 |
| 85° | 2993 | 2134 | 1638 |



TEST NUMBER: P218245

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 258.0 | 4.1 |
| 10°-20° | 724.0 | 11.4 |
| 20°-30° | 1048.4 | 16.5 |
| 30°-40° | 1141.1 | 18.0 |
| 40°-50° | 1013.4 | 16.0 |
| 50°-60° | 771.4 | 12.2 |
| 60°-70° | 512.2 | 8.1 |
| 70°-80° | 312.1 | 4.9 |
| 80°-90° | 193.4 | 3.1 |
| 90°-100° | 132.1 | 2.1 |
| 100°-110° | 92.7 | 1.5 |
| 110°-120° | 63.1 | 1.0 |
| 120°-130° | 40.0 | 0.6 |
| 130°-140° | 22.8 | 0.4 |
| 140°-150° | 10.7 | 0.2 |
| 150°-160° | 0.7 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 2030.4 | 32.0 |
| 0°-40° | 3171.4 | 50.1 |
| 0°-60° | 4956.2 | 78.2 |
| 0°-90° | 5973.9 | 94.3 |
| 90°-120° | 287.9 | 4.5 |
| 90°-150° | 361.4 | 5.7 |
| 90°-180° | 362.0 | 5.7 |
| 0°-180° | 6336.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2744 | 2744 | 2744 | 2744 | 2744 | |
| 5° | 2757 | 2741 | 2704 | 2717 | 2701 | 262 |
| 15° | 2687 | 2640 | 2544 | 2514 | 2480 | 759 |
| 25° | 2534 | 2420 | 2247 | 2156 | 2100 | 1167 |
| 35° | 2240 | 2040 | 1766 | 1612 | 1546 | 1395 |
| 45° | 1759 | 1496 | 1215 | 1112 | 1085 | 1355 |
| 55° | 1138 | 925 | 784 | 771 | 768 | 1021 |
| 65° | 574 | 494 | 494 | 514 | 507 | 579 |
| 75° | 220 | 250 | 314 | 330 | 320 | 238 |
| 85° | 40 | 127 | 214 | 227 | 220 | 48 |
| 90° | 0 | 94 | 180 | 197 | 190 | 3 |
| 95° | 0 | 73 | 154 | 170 | 167 | 0 |
| 105° | 0 | 47 | 110 | 127 | 127 | 0 |
| 115° | 0 | 30 | 80 | 97 | 94 | 0 |
| 125° | 0 | 20 | 53 | 67 | 67 | 0 |
| 135° | 0 | 13 | 37 | 47 | 47 | 0 |
| 145° | 0 | 7 | 20 | 27 | 27 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P218245

CATALOG NUMBER: 8TSNLED-LD5-60SL-LN-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2744.0 | 2744.0 | 2744.0 | 2744.0 | 2744.0 |
| 2.5° | 2760.7 | 2747.3 | 2720.6 | 2737.3 | 2727.3 |
| 5° | 2757.3 | 2740.6 | 2703.9 | 2717.3 | 2700.6 |
| 7.5° | 2747.3 | 2727.3 | 2677.2 | 2683.9 | 2657.2 |
| 10° | 2730.6 | 2703.9 | 2640.5 | 2633.8 | 2607.1 |
| 12.5° | 2710.6 | 2677.2 | 2600.4 | 2577.1 | 2550.4 |
| 15° | 2687.2 | 2640.5 | 2543.7 | 2513.6 | 2480.3 |
| 17.5° | 2660.5 | 2597.1 | 2486.9 | 2440.2 | 2403.5 |
| 20° | 2623.8 | 2547.0 | 2413.5 | 2356.7 | 2316.7 |
| 22.5° | 2587.1 | 2486.9 | 2336.7 | 2259.9 | 2216.5 |
| 25° | 2533.7 | 2420.2 | 2246.6 | 2156.5 | 2099.7 |
| 27.5° | 2473.6 | 2343.4 | 2146.4 | 2029.6 | 1966.2 |
| 30° | 2403.5 | 2253.3 | 2036.3 | 1899.4 | 1842.7 |
| 32.5° | 2326.7 | 2153.1 | 1902.8 | 1755.9 | 1692.4 |
| 35° | 2239.9 | 2039.6 | 1765.9 | 1612.3 | 1545.6 |
| 37.5° | 2133.1 | 1916.1 | 1629.0 | 1472.1 | 1418.7 |
| 40° | 2026.3 | 1785.9 | 1492.2 | 1345.3 | 1288.5 |
| 42.5° | 1906.1 | 1642.4 | 1352.0 | 1218.4 | 1178.4 |
| 45° | 1759.2 | 1495.5 | 1215.1 | 1111.6 | 1084.9 |
| 47.5° | 1615.7 | 1345.3 | 1091.6 | 1018.1 | 994.8 |
| 50° | 1468.8 | 1198.4 | 974.7 | 928.0 | 911.3 |
| 52.5° | 1298.5 | 1054.9 | 877.9 | 847.9 | 841.2 |
| 55° | 1138.3 | 924.7 | 784.5 | 771.1 | 767.8 |
| 57.5° | 984.8 | 801.2 | 697.7 | 707.7 | 701.0 |
| 60° | 841.2 | 687.7 | 620.9 | 634.3 | 630.9 |
| 62.5° | 701.0 | 584.2 | 550.8 | 577.5 | 570.8 |
| 65° | 574.2 | 494.0 | 494.0 | 514.1 | 507.4 |
| 67.5° | 464.0 | 420.6 | 440.6 | 460.7 | 454.0 |
| 70° | 370.5 | 353.8 | 393.9 | 410.6 | 403.9 |
| 72.5° | 287.1 | 297.1 | 347.2 | 367.2 | 357.2 |
| 75° | 220.3 | 250.4 | 313.8 | 330.5 | 320.5 |
| 77.5° | 156.9 | 210.3 | 283.7 | 297.1 | 287.1 |
| 80° | 110.2 | 176.9 | 257.0 | 270.4 | 260.4 |
| 82.5° | 70.1 | 150.2 | 233.7 | 247.0 | 240.3 |
| 85° | 40.1 | 126.9 | 213.6 | 227.0 | 220.3 |
| 87.5° | 20.0 | 110.2 | 193.6 | 210.3 | 203.6 |
| 90° | 0.0 | 93.5 | 180.3 | 197.0 | 190.3 |
| 92.5° | 0.0 | 83.5 | 166.9 | 183.6 | 176.9 |
| 95° | 0.0 | 73.4 | 153.6 | 170.2 | 166.9 |
| 97.5° | 0.0 | 66.8 | 143.5 | 160.2 | 153.6 |
| 100° | 0.0 | 56.7 | 130.2 | 146.9 | 143.5 |
| 102.5° | 0.0 | 53.4 | 120.2 | 136.9 | 133.5 |
| 105° | 0.0 | 46.7 | 110.2 | 126.9 | 126.9 |
| 107.5° | 0.0 | 43.4 | 103.5 | 120.2 | 116.8 |
| 110° | 0.0 | 36.7 | 93.5 | 110.2 | 110.2 |



TEST NUMBER: P218245

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 33.4 | 86.8 | 103.5 | 100.1 |
| 115° | 0.0 | 30.0 | 80.1 | 96.8 | 93.5 |
| 117.5° | 0.0 | 30.0 | 73.4 | 86.8 | 86.8 |
| 120° | 0.0 | 26.7 | 66.8 | 80.1 | 80.1 |
| 122.5° | 0.0 | 23.4 | 60.1 | 73.4 | 73.4 |
| 125° | 0.0 | 20.0 | 53.4 | 66.8 | 66.8 |
| 127.5° | 0.0 | 20.0 | 50.1 | 63.4 | 63.4 |
| 130° | 0.0 | 16.7 | 43.4 | 56.7 | 56.7 |
| 132.5° | 0.0 | 13.4 | 40.1 | 50.1 | 50.1 |
| 135° | 0.0 | 13.4 | 36.7 | 46.7 | 46.7 |
| 137.5° | 0.0 | 10.0 | 30.0 | 40.1 | 40.1 |
| 140° | 0.0 | 10.0 | 26.7 | 36.7 | 36.7 |
| 142.5° | 0.0 | 6.7 | 23.4 | 33.4 | 30.0 |
| 145° | 0.0 | 6.7 | 20.0 | 26.7 | 26.7 |
| 147.5° | 0.0 | 3.3 | 16.7 | 23.4 | 23.4 |
| 150° | 0.0 | 3.3 | 13.4 | 20.0 | 16.7 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 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)