

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: P218266

Luminaire Tested: **8TSNLED-LD5-98SL-LN-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218266
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-LD5-98SL-LN-UNV-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11008.9 lumens
Efficiency: N/A
Efficacy: 142.3 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

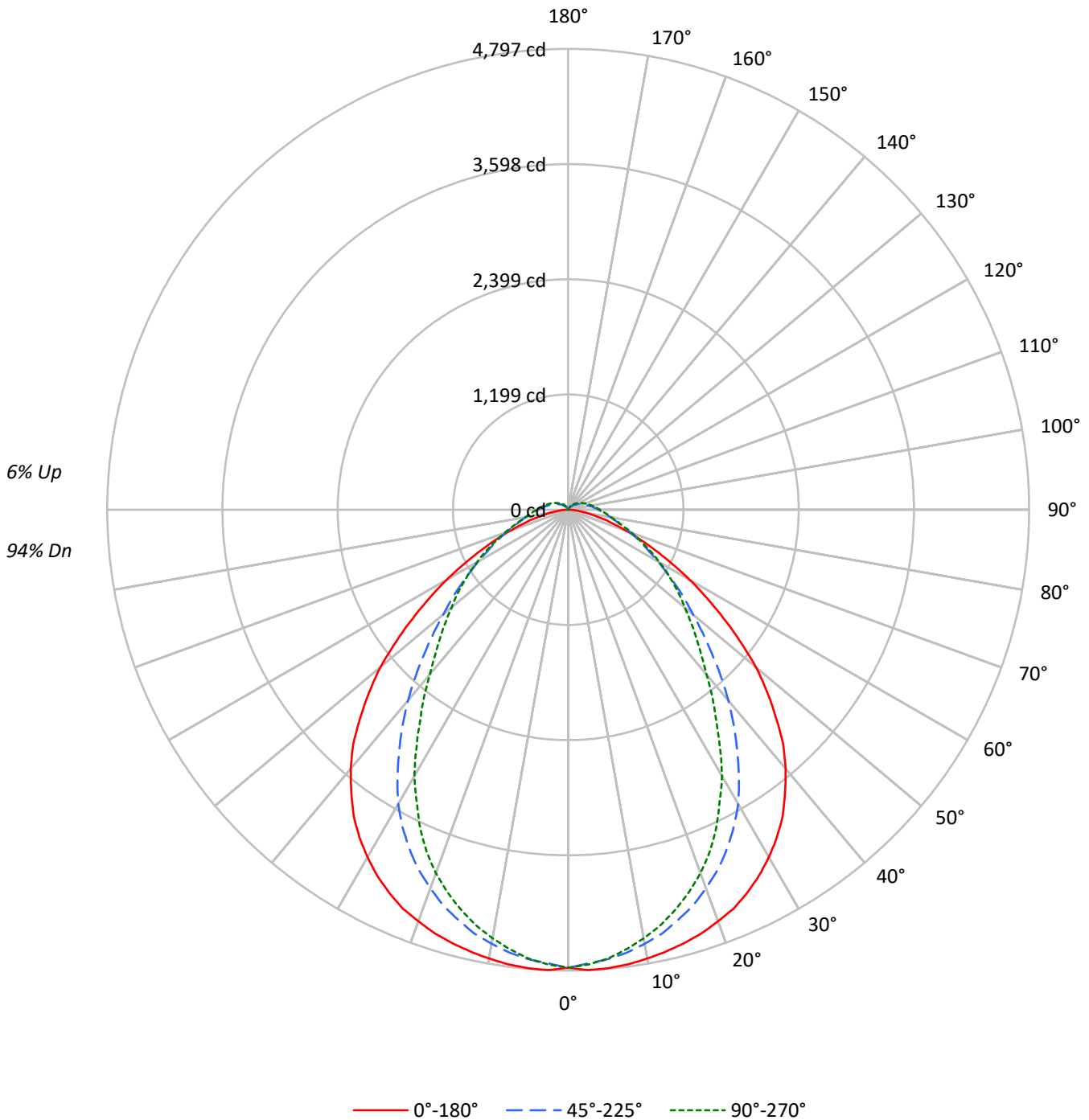
Input Watts (W): 77.38
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P218266

CATALOG NUMBER: 8TSNLED-LD5-98SL-LN-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P218266

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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° | 38413 | 38413 | 38413 |
| 5° | 38676 | 35739 | 34896 |
| 10° | 38673 | 33296 | 31505 |
| 15° | 38729 | 30890 | 28349 |
| 20° | 38793 | 28474 | 25303 |
| 25° | 38758 | 25962 | 22118 |
| 30° | 38389 | 23233 | 18884 |
| 35° | 37728 | 20046 | 15535 |
| 40° | 36391 | 16982 | 12804 |
| 45° | 34116 | 13971 | 10739 |
| 50° | 31212 | 11411 | 9055 |
| 55° | 26979 | 9427 | 7717 |
| 60° | 22730 | 7725 | 6465 |
| 65° | 18203 | 6422 | 5345 |
| 70° | 14343 | 5404 | 4412 |
| 75° | 11055 | 4594 | 3663 |
| 80° | 7940 | 4068 | 3146 |
| 85° | 5195 | 3709 | 2847 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 448.2 | 4.1 |
| 10°-20° | 1258.0 | 11.4 |
| 20°-30° | 1821.7 | 16.5 |
| 30°-40° | 1982.6 | 18.0 |
| 40°-50° | 1760.8 | 16.0 |
| 50°-60° | 1340.3 | 12.2 |
| 60°-70° | 889.9 | 8.1 |
| 70°-80° | 542.2 | 4.9 |
| 80°-90° | 336.0 | 3.1 |
| 90°-100° | 229.5 | 2.1 |
| 100°-110° | 161.1 | 1.5 |
| 110°-120° | 109.7 | 1.0 |
| 120°-130° | 69.6 | 0.6 |
| 130°-140° | 39.6 | 0.4 |
| 140°-150° | 18.6 | 0.2 |
| 150°-160° | 1.3 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 3527.8 | 32.0 |
| 0°-40° | 5510.5 | 50.1 |
| 0°-60° | 8611.6 | 78.2 |
| 0°-90° | 10379.7 | 94.3 |
| 90°-120° | 500.2 | 4.5 |
| 90°-150° | 628.0 | 5.7 |
| 90°-180° | 629.0 | 5.7 |
| 0°-180° | 11008.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4768 | 4768 | 4768 | 4768 | 4768 | |
| 5° | 4791 | 4762 | 4698 | 4721 | 4692 | 456 |
| 15° | 4669 | 4588 | 4420 | 4368 | 4310 | 1319 |
| 25° | 4402 | 4205 | 3904 | 3747 | 3648 | 2027 |
| 35° | 3892 | 3544 | 3068 | 2802 | 2686 | 2424 |
| 45° | 3057 | 2598 | 2111 | 1932 | 1885 | 2354 |
| 55° | 1978 | 1607 | 1363 | 1340 | 1334 | 1774 |
| 65° | 998 | 858 | 858 | 893 | 882 | 1006 |
| 75° | 383 | 435 | 545 | 574 | 557 | 414 |
| 85° | 70 | 220 | 371 | 394 | 383 | 83 |
| 90° | 0 | 162 | 313 | 342 | 331 | 5 |
| 95° | 0 | 128 | 267 | 296 | 290 | 0 |
| 105° | 0 | 81 | 191 | 220 | 220 | 0 |
| 115° | 0 | 52 | 139 | 168 | 162 | 0 |
| 125° | 0 | 35 | 93 | 116 | 116 | 0 |
| 135° | 0 | 23 | 64 | 81 | 81 | 0 |
| 145° | 0 | 12 | 35 | 46 | 46 | 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: P218266

CATALOG NUMBER: 8TSNLED-LD5-98SL-LN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4767.7 | 4767.7 | 4767.7 | 4767.7 | 4767.7 |
| 2.5° | 4796.7 | 4773.5 | 4727.1 | 4756.1 | 4738.7 |
| 5° | 4790.9 | 4761.9 | 4698.1 | 4721.3 | 4692.3 |
| 7.5° | 4773.5 | 4738.7 | 4651.7 | 4663.3 | 4616.9 |
| 10° | 4744.5 | 4698.1 | 4587.9 | 4576.3 | 4529.9 |
| 12.5° | 4709.7 | 4651.7 | 4518.3 | 4477.7 | 4431.3 |
| 15° | 4669.1 | 4587.9 | 4419.7 | 4367.5 | 4309.5 |
| 17.5° | 4622.7 | 4512.5 | 4321.1 | 4239.9 | 4176.1 |
| 20° | 4558.9 | 4425.5 | 4193.5 | 4094.9 | 4025.3 |
| 22.5° | 4495.1 | 4321.1 | 4060.1 | 3926.7 | 3851.3 |
| 25° | 4402.3 | 4205.1 | 3903.5 | 3746.9 | 3648.3 |
| 27.5° | 4297.9 | 4071.7 | 3729.5 | 3526.5 | 3416.3 |
| 30° | 4176.1 | 3915.1 | 3538.1 | 3300.3 | 3201.7 |
| 32.5° | 4042.7 | 3741.1 | 3306.1 | 3050.9 | 2940.7 |
| 35° | 3891.9 | 3543.9 | 3068.3 | 2801.5 | 2685.5 |
| 37.5° | 3706.3 | 3329.3 | 2830.5 | 2557.9 | 2465.1 |
| 40° | 3520.7 | 3103.1 | 2592.7 | 2337.5 | 2238.9 |
| 42.5° | 3311.9 | 2853.7 | 2349.1 | 2117.1 | 2047.5 |
| 45° | 3056.7 | 2598.5 | 2111.3 | 1931.5 | 1885.1 |
| 47.5° | 2807.3 | 2337.5 | 1896.7 | 1769.0 | 1728.4 |
| 50° | 2552.1 | 2082.3 | 1693.6 | 1612.4 | 1583.4 |
| 52.5° | 2256.3 | 1832.9 | 1525.4 | 1473.2 | 1461.6 |
| 55° | 1977.9 | 1606.6 | 1363.0 | 1339.8 | 1334.0 |
| 57.5° | 1711.0 | 1392.0 | 1212.2 | 1229.6 | 1218.0 |
| 60° | 1461.6 | 1194.8 | 1078.8 | 1102.0 | 1096.2 |
| 62.5° | 1218.0 | 1015.0 | 957.0 | 1003.4 | 991.8 |
| 65° | 997.6 | 858.4 | 858.4 | 893.2 | 881.6 |
| 67.5° | 806.2 | 730.8 | 765.6 | 800.4 | 788.8 |
| 70° | 643.8 | 614.8 | 684.4 | 713.4 | 701.8 |
| 72.5° | 498.8 | 516.2 | 603.2 | 638.0 | 620.6 |
| 75° | 382.8 | 435.0 | 545.2 | 574.2 | 556.8 |
| 77.5° | 272.6 | 365.4 | 493.0 | 516.2 | 498.8 |
| 80° | 191.4 | 307.4 | 446.6 | 469.8 | 452.4 |
| 82.5° | 121.8 | 261.0 | 406.0 | 429.2 | 417.6 |
| 85° | 69.6 | 220.4 | 371.2 | 394.4 | 382.8 |
| 87.5° | 34.8 | 191.4 | 336.4 | 365.4 | 353.8 |
| 90° | 0.0 | 162.4 | 313.2 | 342.2 | 330.6 |
| 92.5° | 0.0 | 145.0 | 290.0 | 319.0 | 307.4 |
| 95° | 0.0 | 127.6 | 266.8 | 295.8 | 290.0 |
| 97.5° | 0.0 | 116.0 | 249.4 | 278.4 | 266.8 |
| 100° | 0.0 | 98.6 | 226.2 | 255.2 | 249.4 |
| 102.5° | 0.0 | 92.8 | 208.8 | 237.8 | 232.0 |
| 105° | 0.0 | 81.2 | 191.4 | 220.4 | 220.4 |
| 107.5° | 0.0 | 75.4 | 179.8 | 208.8 | 203.0 |
| 110° | 0.0 | 63.8 | 162.4 | 191.4 | 191.4 |



TEST NUMBER: P218266

CATALOG NUMBER: 8TSNLED-LD5-98SL-LN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 58.0 | 150.8 | 179.8 | 174.0 |
| 115° | 0.0 | 52.2 | 139.2 | 168.2 | 162.4 |
| 117.5° | 0.0 | 52.2 | 127.6 | 150.8 | 150.8 |
| 120° | 0.0 | 46.4 | 116.0 | 139.2 | 139.2 |
| 122.5° | 0.0 | 40.6 | 104.4 | 127.6 | 127.6 |
| 125° | 0.0 | 34.8 | 92.8 | 116.0 | 116.0 |
| 127.5° | 0.0 | 34.8 | 87.0 | 110.2 | 110.2 |
| 130° | 0.0 | 29.0 | 75.4 | 98.6 | 98.6 |
| 132.5° | 0.0 | 23.2 | 69.6 | 87.0 | 87.0 |
| 135° | 0.0 | 23.2 | 63.8 | 81.2 | 81.2 |
| 137.5° | 0.0 | 17.4 | 52.2 | 69.6 | 69.6 |
| 140° | 0.0 | 17.4 | 46.4 | 63.8 | 63.8 |
| 142.5° | 0.0 | 11.6 | 40.6 | 58.0 | 52.2 |
| 145° | 0.0 | 11.6 | 34.8 | 46.4 | 46.4 |
| 147.5° | 0.0 | 5.8 | 29.0 | 40.6 | 40.6 |
| 150° | 0.0 | 5.8 | 23.2 | 34.8 | 29.0 |
| 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)