

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: P#

Luminaire Tested: **2SNLED-LD5-26SL-SLN-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNLED-LD5-26SL-SLN-UNV-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

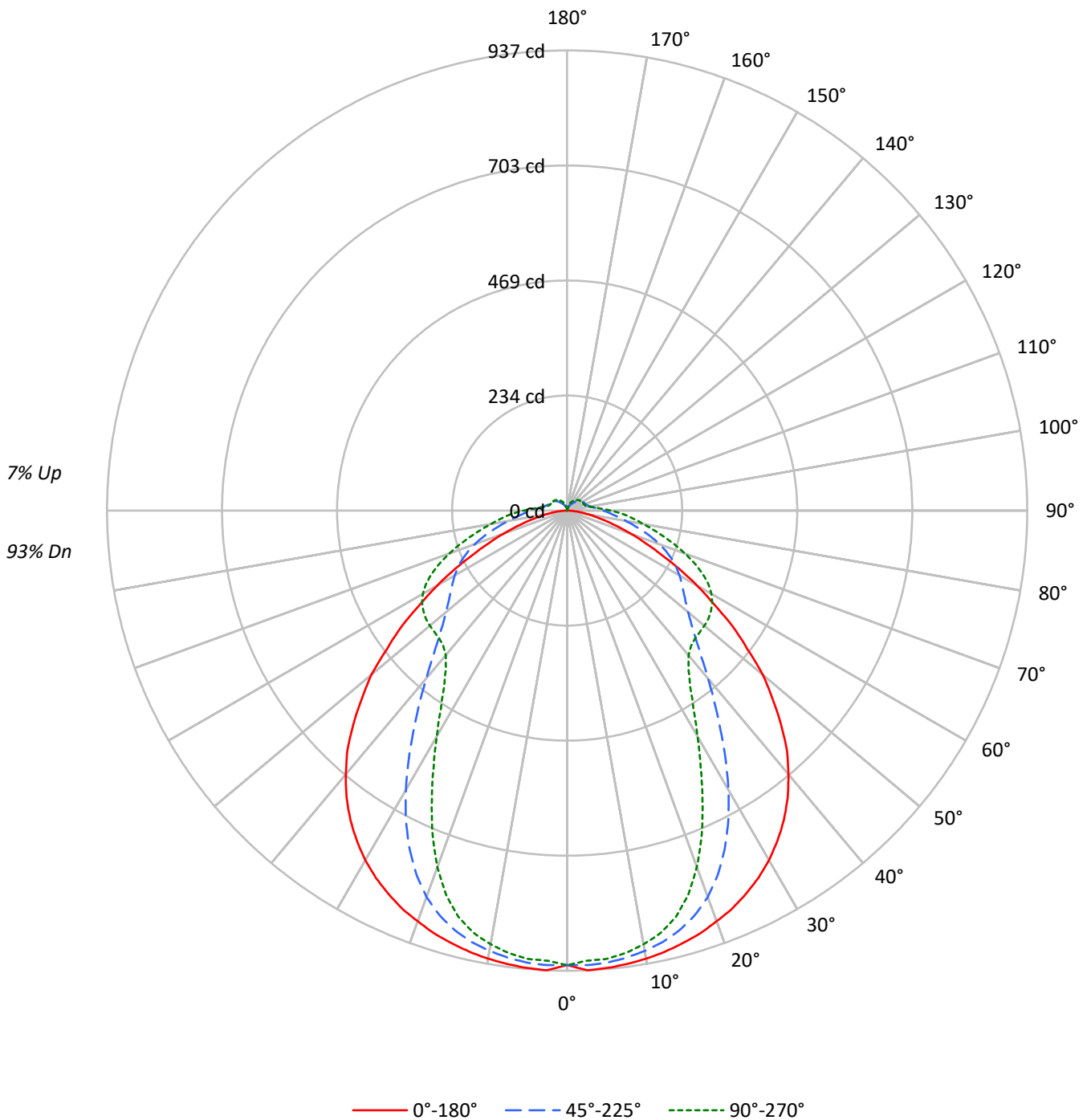
Lumens per Lamp: N/A
Luminaire Lumens: 2327.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 21
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: P#
CATALOG NUMBER: 2SNLED-LD5-26SL-SLN-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-26SL-SLN-UNV-L940-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 95 | 95 | 95 | 93 |
| 1 | 107 | 102 | 97 | 93 | 103 | 99 | 94 | 91 | 93 | 90 | 87 | 88 | 85 | 83 | 83 | 81 | 79 | 76 |
| 2 | 97 | 89 | 82 | 76 | 94 | 86 | 80 | 75 | 81 | 76 | 72 | 77 | 73 | 69 | 73 | 70 | 66 | 64 |
| 3 | 89 | 78 | 70 | 64 | 86 | 76 | 69 | 63 | 72 | 66 | 61 | 68 | 63 | 59 | 65 | 61 | 57 | 54 |
| 4 | 82 | 70 | 61 | 55 | 79 | 68 | 60 | 54 | 65 | 58 | 52 | 61 | 55 | 51 | 58 | 53 | 49 | 47 |
| 5 | 75 | 63 | 54 | 47 | 73 | 61 | 53 | 47 | 58 | 51 | 46 | 55 | 49 | 44 | 53 | 48 | 43 | 41 |
| 6 | 70 | 57 | 48 | 42 | 67 | 55 | 47 | 41 | 53 | 46 | 40 | 51 | 44 | 39 | 48 | 43 | 39 | 36 |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 42 | 37 | 48 | 41 | 36 | 46 | 40 | 35 | 44 | 39 | 35 | 32 |
| 8 | 61 | 47 | 39 | 33 | 59 | 46 | 39 | 33 | 44 | 37 | 32 | 43 | 36 | 32 | 41 | 35 | 31 | 29 |
| 9 | 57 | 44 | 36 | 30 | 55 | 43 | 35 | 30 | 41 | 34 | 29 | 40 | 33 | 29 | 38 | 33 | 28 | 27 |
| 10 | 53 | 40 | 33 | 28 | 52 | 40 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 35 | 30 | 26 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14955 | 14955 | 14955 |
| 5° | 15087 | 14597 | 14396 |
| 10° | 15039 | 14167 | 13804 |
| 15° | 15002 | 13669 | 13015 |
| 20° | 14965 | 12941 | 11689 |
| 25° | 14926 | 11837 | 9900 |
| 30° | 14806 | 10397 | 8142 |
| 35° | 14542 | 8829 | 6823 |
| 40° | 14059 | 7462 | 6167 |
| 45° | 13254 | 6471 | 6122 |
| 50° | 12178 | 5901 | 6336 |
| 55° | 10653 | 5656 | 6558 |
| 60° | 8913 | 5559 | 6648 |
| 65° | 7092 | 5417 | 6441 |
| 70° | 5610 | 5114 | 5941 |
| 75° | 4132 | 4600 | 5272 |
| 80° | 2927 | 4100 | 4688 |
| 85° | 1785 | 3828 | 4315 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-26SL-SLN-UNV-L940-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.5 | 3.8 |
| 10°-20° | 247.4 | 10.6 |
| 20°-30° | 345.9 | 14.9 |
| 30°-40° | 358.8 | 15.4 |
| 40°-50° | 331.5 | 14.2 |
| 50°-60° | 295.9 | 12.7 |
| 60°-70° | 239.8 | 10.3 |
| 70°-80° | 159.5 | 6.9 |
| 80°-90° | 91.3 | 3.9 |
| 90°-100° | 50.5 | 2.2 |
| 100°-110° | 34.2 | 1.5 |
| 110°-120° | 28.5 | 1.2 |
| 120°-130° | 23.2 | 1.0 |
| 130°-140° | 16.7 | 0.7 |
| 140°-150° | 10.1 | 0.4 |
| 150°-160° | 4.8 | 0.2 |
| 160°-170° | 1.3 | 0.1 |
| 170°-180° | 0.0 | 0.0 |
| <hr/> | | |
| 0°-30° | 680.9 | 29.3 |
| 0°-40° | 1039.7 | 44.7 |
| 0°-60° | 1667.0 | 71.6 |
| 0°-90° | 2157.7 | 92.7 |
| 90°-120° | 113.2 | 4.9 |
| 90°-150° | 163.2 | 7.0 |
| 90°-180° | 169.0 | 7.3 |
| 0°-180° | 2327.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 925 | 925 | 925 | 925 | 925 | |
| 5° | 935 | 919 | 924 | 918 | 916 | 89 |
| 15° | 912 | 892 | 885 | 865 | 856 | 258 |
| 25° | 861 | 823 | 760 | 680 | 652 | 397 |
| 35° | 769 | 685 | 544 | 457 | 437 | 480 |
| 45° | 616 | 488 | 371 | 358 | 368 | 474 |
| 55° | 412 | 311 | 290 | 337 | 358 | 366 |
| 65° | 210 | 188 | 236 | 289 | 304 | 213 |
| 75° | 82 | 102 | 159 | 195 | 203 | 89 |
| 85° | 16 | 48 | 94 | 120 | 123 | 19 |
| 90° | 1 | 33 | 74 | 89 | 88 | 1 |
| 95° | 1 | 28 | 59 | 63 | 61 | 1 |
| 105° | 0 | 24 | 42 | 41 | 39 | 0 |
| 115° | 0 | 22 | 37 | 37 | 36 | 0 |
| 125° | 0 | 19 | 33 | 35 | 34 | 0 |
| 135° | 1 | 14 | 26 | 31 | 31 | 1 |
| 145° | 1 | 9 | 18 | 24 | 25 | 1 |
| 155° | 1 | 6 | 11 | 15 | 18 | 0 |
| 165° | 1 | 3 | 6 | 7 | 10 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-26SL-SLN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 925.3 | 925.3 | 925.3 | 925.3 | 925.3 |
| 2.5° | 937.0 | 921.7 | 926.5 | 922.5 | 917.3 |
| 5° | 935.0 | 919.3 | 924.1 | 917.7 | 916.5 |
| 7.5° | 931.3 | 915.7 | 918.5 | 910.8 | 908.8 |
| 10° | 926.5 | 910.0 | 910.4 | 899.6 | 896.8 |
| 12.5° | 920.1 | 902.0 | 899.6 | 884.7 | 880.7 |
| 15° | 911.6 | 892.3 | 884.7 | 864.6 | 856.1 |
| 17.5° | 902.4 | 879.9 | 864.2 | 833.2 | 819.9 |
| 20° | 889.9 | 864.6 | 837.2 | 790.2 | 772.5 |
| 22.5° | 877.5 | 846.1 | 802.3 | 739.5 | 715.8 |
| 25° | 861.4 | 823.2 | 759.6 | 680.0 | 652.3 |
| 27.5° | 843.3 | 796.2 | 710.6 | 618.9 | 589.1 |
| 30° | 822.0 | 763.7 | 656.7 | 559.0 | 530.8 |
| 32.5° | 797.0 | 727.1 | 600.0 | 505.1 | 478.9 |
| 35° | 769.3 | 684.8 | 544.5 | 457.2 | 436.7 |
| 37.5° | 737.5 | 638.6 | 493.0 | 418.6 | 405.4 |
| 40° | 701.3 | 588.3 | 445.6 | 388.9 | 384.4 |
| 42.5° | 662.3 | 539.3 | 404.9 | 369.6 | 373.6 |
| 45° | 616.1 | 488.2 | 370.8 | 357.5 | 368.4 |
| 47.5° | 567.4 | 438.3 | 343.0 | 350.7 | 366.3 |
| 50° | 520.4 | 392.1 | 321.3 | 346.2 | 364.7 |
| 52.5° | 462.1 | 350.7 | 304.0 | 342.2 | 362.3 |
| 55° | 411.8 | 311.3 | 289.5 | 336.6 | 357.5 |
| 57.5° | 353.9 | 275.9 | 276.7 | 329.3 | 350.3 |
| 60° | 305.6 | 243.7 | 264.2 | 319.3 | 339.4 |
| 62.5° | 256.6 | 214.7 | 250.5 | 306.0 | 324.1 |
| 65° | 210.3 | 188.2 | 235.7 | 288.7 | 304.0 |
| 67.5° | 171.7 | 164.1 | 218.8 | 267.8 | 280.7 |
| 70° | 139.1 | 142.0 | 200.3 | 244.5 | 255.4 |
| 72.5° | 107.0 | 121.4 | 180.2 | 219.6 | 228.8 |
| 75° | 81.6 | 102.1 | 158.8 | 194.6 | 202.7 |
| 77.5° | 60.3 | 85.3 | 139.5 | 172.1 | 178.9 |
| 80° | 42.6 | 70.4 | 121.4 | 152.4 | 157.6 |
| 82.5° | 28.6 | 57.9 | 106.6 | 134.7 | 139.5 |
| 85° | 16.5 | 47.5 | 93.7 | 119.8 | 123.1 |
| 87.5° | 6.8 | 39.4 | 83.2 | 104.6 | 106.2 |
| 90° | 0.8 | 33.4 | 74.0 | 89.3 | 88.5 |
| 92.5° | 0.8 | 30.2 | 65.9 | 74.8 | 72.8 |
| 95° | 0.8 | 28.1 | 58.7 | 62.7 | 60.7 |
| 97.5° | 0.8 | 26.9 | 52.3 | 53.9 | 51.9 |
| 100° | 0.4 | 26.1 | 47.9 | 47.9 | 45.8 |
| 102.5° | 0.4 | 25.3 | 44.6 | 43.4 | 41.8 |
| 105° | 0.4 | 24.5 | 42.2 | 41.0 | 39.0 |
| 107.5° | 0.4 | 24.1 | 40.6 | 39.4 | 37.4 |
| 110° | 0.4 | 23.3 | 39.4 | 38.2 | 36.6 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-26SL-SLN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.4 | 22.9 | 38.6 | 37.8 | 35.8 |
| 115° | 0.4 | 22.1 | 37.4 | 37.0 | 35.8 |
| 117.5° | 0.4 | 21.3 | 36.6 | 36.6 | 35.4 |
| 120° | 0.4 | 20.5 | 35.4 | 36.2 | 35.0 |
| 122.5° | 0.4 | 19.7 | 34.2 | 35.4 | 34.2 |
| 125° | 0.4 | 18.9 | 33.0 | 34.6 | 33.8 |
| 127.5° | 0.8 | 17.7 | 31.4 | 33.8 | 33.0 |
| 130° | 0.4 | 16.5 | 29.8 | 33.0 | 32.6 |
| 132.5° | 0.8 | 15.3 | 28.1 | 31.8 | 31.8 |
| 135° | 0.8 | 14.1 | 26.1 | 30.6 | 30.6 |
| 137.5° | 0.8 | 12.5 | 24.1 | 29.0 | 29.4 |
| 140° | 0.8 | 11.3 | 22.1 | 27.3 | 28.1 |
| 142.5° | 0.8 | 10.1 | 20.1 | 25.7 | 26.9 |
| 145° | 0.8 | 8.8 | 18.1 | 23.7 | 25.3 |
| 147.5° | 0.8 | 8.0 | 16.1 | 21.3 | 23.7 |
| 150° | 0.8 | 6.8 | 14.5 | 19.3 | 21.7 |
| 152.5° | 0.8 | 6.0 | 12.9 | 17.3 | 20.1 |
| 155° | 0.8 | 5.6 | 11.3 | 14.9 | 18.1 |
| 157.5° | 0.8 | 4.8 | 9.7 | 12.9 | 16.1 |
| 160° | 0.8 | 4.0 | 8.0 | 11.3 | 13.7 |
| 162.5° | 0.8 | 3.6 | 6.8 | 9.2 | 12.1 |
| 165° | 0.8 | 3.2 | 5.6 | 7.2 | 9.7 |
| 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)