

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: P566129

Luminaire Tested: **4SNX-20SL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-20SL-UNV-L850-CD
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

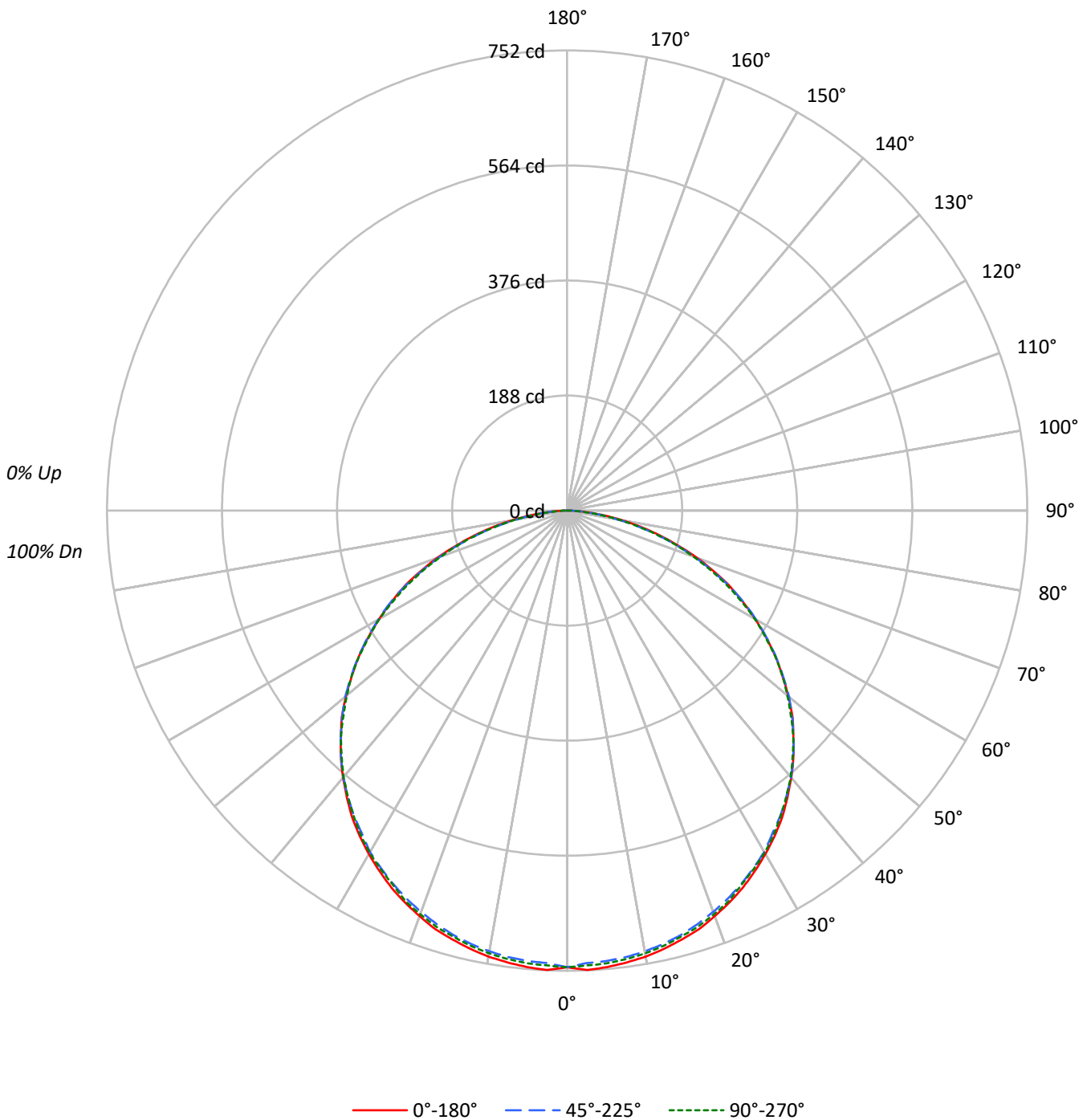
Lumens per Lamp: N/A
Luminaire Lumens: 2231.0 lumens
Efficiency: N/A
Efficacy: 184.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.1
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

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Luminous Intensity Polar Plot





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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 99 | 95 | 106 | 101 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 83 |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 36 | 30 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8032 | 8032 | 8032 |
| 5° | 8091 | 7983 | 8026 |
| 10° | 8089 | 7994 | 8030 |
| 15° | 8084 | 8001 | 8031 |
| 20° | 8078 | 7993 | 8040 |
| 25° | 8073 | 7993 | 8010 |
| 30° | 8057 | 8007 | 8023 |
| 35° | 8050 | 7988 | 7997 |
| 40° | 8005 | 7995 | 7985 |
| 45° | 7957 | 7967 | 7957 |
| 50° | 7899 | 7922 | 7865 |
| 55° | 7796 | 7820 | 7782 |
| 60° | 7642 | 7670 | 7627 |
| 65° | 7486 | 7435 | 7333 |
| 70° | 7116 | 6968 | 6883 |
| 75° | 6500 | 6280 | 6305 |
| 80° | 5616 | 5201 | 5325 |
| 85° | 4224 | 4063 | 3643 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 70.8 | 3.2 |
| 10°-20° | 204.0 | 9.1 |
| 20°-30° | 312.1 | 14.0 |
| 30°-40° | 381.6 | 17.1 |
| 40°-50° | 403.6 | 18.1 |
| 50°-60° | 371.9 | 16.7 |
| 60°-70° | 286.6 | 12.8 |
| 70°-80° | 160.6 | 7.2 |
| 80°-90° | 39.9 | 1.8 |
| 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° | 586.8 | 26.3 |
| 0°-40° | 968.4 | 43.4 |
| 0°-60° | 1743.9 | 78.2 |
| 0°-90° | 2231.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2231.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 746 | 746 | 746 | 746 | 746 | |
| 5° | 749 | 746 | 739 | 746 | 743 | 71 |
| 15° | 725 | 724 | 718 | 724 | 721 | 205 |
| 25° | 680 | 678 | 673 | 678 | 674 | 313 |
| 35° | 613 | 611 | 608 | 610 | 609 | 383 |
| 45° | 523 | 525 | 523 | 523 | 523 | 404 |
| 55° | 415 | 419 | 417 | 417 | 415 | 371 |
| 65° | 294 | 294 | 292 | 284 | 288 | 289 |
| 75° | 156 | 154 | 151 | 146 | 152 | 166 |
| 85° | 34 | 32 | 33 | 33 | 30 | 42 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P566129

CATALOG NUMBER: 4SNX-20SL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 746.2 | 746.2 | 746.2 | 746.2 | 746.2 |
| 2.5° | 751.5 | 748.2 | 740.1 | 747.5 | 744.1 |
| 5° | 748.8 | 746.2 | 738.8 | 746.2 | 742.8 |
| 7.5° | 744.8 | 742.8 | 736.1 | 742.8 | 739.4 |
| 10° | 740.1 | 738.1 | 731.4 | 738.1 | 734.7 |
| 12.5° | 733.4 | 732.1 | 725.4 | 732.1 | 728.7 |
| 15° | 725.4 | 724.0 | 718.0 | 724.0 | 720.7 |
| 17.5° | 717.3 | 714.6 | 708.6 | 715.3 | 712.6 |
| 20° | 705.2 | 703.9 | 697.8 | 703.9 | 701.9 |
| 22.5° | 693.1 | 691.8 | 686.4 | 691.8 | 690.5 |
| 25° | 679.7 | 678.4 | 673.0 | 678.4 | 674.4 |
| 27.5° | 664.3 | 665.0 | 658.9 | 662.3 | 660.3 |
| 30° | 648.2 | 648.2 | 644.2 | 645.5 | 645.5 |
| 32.5° | 630.7 | 630.7 | 624.7 | 628.7 | 628.1 |
| 35° | 612.6 | 611.3 | 607.9 | 609.9 | 608.6 |
| 37.5° | 591.2 | 590.5 | 588.5 | 589.8 | 588.5 |
| 40° | 569.7 | 570.4 | 569.0 | 568.3 | 568.3 |
| 42.5° | 547.5 | 548.9 | 546.9 | 546.2 | 545.5 |
| 45° | 522.7 | 524.7 | 523.4 | 522.7 | 522.7 |
| 47.5° | 499.9 | 500.6 | 498.6 | 497.9 | 495.9 |
| 50° | 471.7 | 474.4 | 473.1 | 471.7 | 469.7 |
| 52.5° | 443.5 | 447.6 | 444.9 | 443.5 | 443.5 |
| 55° | 415.4 | 418.7 | 416.7 | 416.7 | 414.7 |
| 57.5° | 385.8 | 389.2 | 386.5 | 386.5 | 383.8 |
| 60° | 355.0 | 358.3 | 356.3 | 354.3 | 354.3 |
| 62.5° | 324.1 | 326.8 | 326.1 | 322.8 | 320.7 |
| 65° | 293.9 | 293.9 | 291.9 | 284.5 | 287.9 |
| 67.5° | 259.7 | 259.0 | 256.3 | 248.9 | 253.6 |
| 70° | 226.1 | 226.1 | 221.4 | 212.7 | 218.7 |
| 72.5° | 189.9 | 191.9 | 185.9 | 179.8 | 185.9 |
| 75° | 156.3 | 154.3 | 151.0 | 145.6 | 151.6 |
| 77.5° | 124.1 | 120.8 | 116.8 | 114.1 | 117.4 |
| 80° | 90.6 | 88.6 | 83.9 | 83.9 | 85.9 |
| 82.5° | 61.7 | 59.7 | 56.4 | 57.0 | 54.4 |
| 85° | 34.2 | 32.2 | 32.9 | 32.9 | 29.5 |
| 87.5° | 14.1 | 14.1 | 14.1 | 12.7 | 11.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)