

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: P566310

Luminaire Tested: **4SNX-33SL-SLW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-33SL-SLW-UNV-L830-CD
Description: 4FT 3300 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

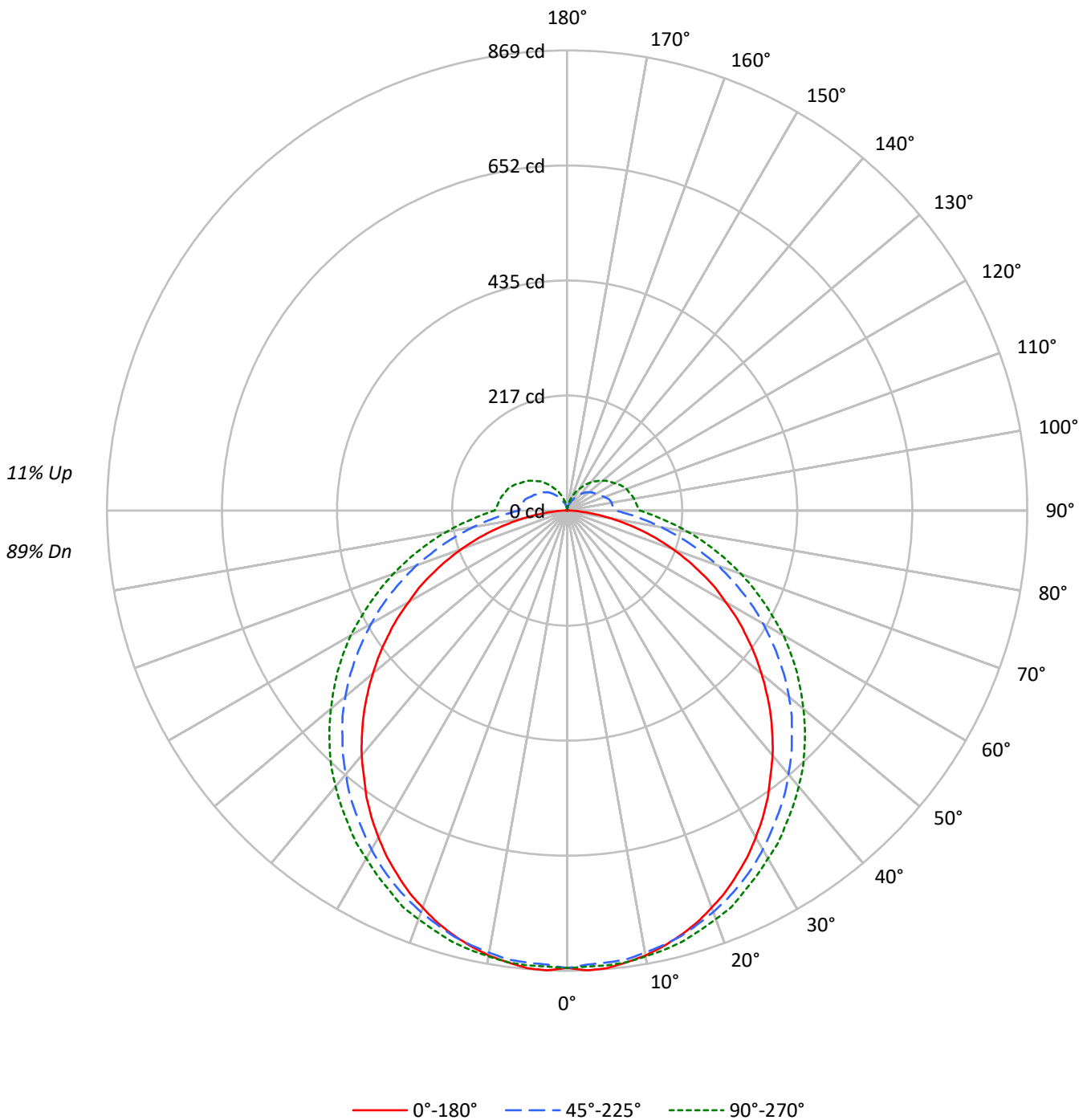
Lumens per Lamp: N/A
Luminaire Lumens: 3075.0 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 21.1
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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CATALOG NUMBER: 4SNX-33SL-SLW-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566310

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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 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 92 | 92 | 92 | 89 |
| 1 | 105 | 100 | 95 | 90 | 101 | 96 | 92 | 88 | 90 | 86 | 83 | 84 | 81 | 79 | 79 | 76 | 74 | 71 |
| 2 | 95 | 86 | 79 | 73 | 91 | 83 | 77 | 71 | 78 | 72 | 68 | 73 | 68 | 64 | 68 | 65 | 61 | 58 |
| 3 | 86 | 75 | 67 | 60 | 83 | 73 | 65 | 59 | 68 | 61 | 56 | 64 | 58 | 54 | 60 | 55 | 51 | 49 |
| 4 | 79 | 66 | 57 | 50 | 75 | 64 | 56 | 49 | 60 | 53 | 47 | 57 | 50 | 46 | 53 | 48 | 44 | 41 |
| 5 | 72 | 59 | 50 | 43 | 69 | 57 | 49 | 42 | 54 | 46 | 41 | 51 | 44 | 39 | 48 | 42 | 38 | 35 |
| 6 | 67 | 53 | 44 | 37 | 64 | 51 | 43 | 37 | 48 | 41 | 35 | 46 | 39 | 34 | 43 | 38 | 33 | 31 |
| 7 | 62 | 48 | 39 | 33 | 59 | 47 | 38 | 32 | 44 | 37 | 31 | 42 | 35 | 30 | 39 | 34 | 29 | 27 |
| 8 | 57 | 44 | 35 | 29 | 55 | 42 | 34 | 29 | 40 | 33 | 28 | 38 | 32 | 27 | 36 | 30 | 26 | 24 |
| 9 | 53 | 40 | 32 | 26 | 51 | 39 | 31 | 26 | 37 | 30 | 25 | 35 | 29 | 24 | 33 | 28 | 24 | 22 |
| 10 | 50 | 37 | 29 | 24 | 48 | 36 | 28 | 23 | 34 | 27 | 23 | 32 | 26 | 22 | 31 | 25 | 21 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9298 | 9298 | 9298 |
| 5° | 9354 | 9059 | 9051 |
| 10° | 9290 | 8875 | 8827 |
| 15° | 9197 | 8688 | 8621 |
| 20° | 9071 | 8472 | 8390 |
| 25° | 8924 | 8261 | 8150 |
| 30° | 8750 | 8030 | 7913 |
| 35° | 8557 | 7790 | 7690 |
| 40° | 8339 | 7554 | 7476 |
| 45° | 8101 | 7313 | 7246 |
| 50° | 7829 | 7058 | 6988 |
| 55° | 7531 | 6753 | 6734 |
| 60° | 7180 | 6425 | 6451 |
| 65° | 6818 | 6058 | 6094 |
| 70° | 6309 | 5655 | 5746 |
| 75° | 5636 | 5141 | 5359 |
| 80° | 4542 | 4618 | 4978 |
| 85° | 3204 | 4169 | 4587 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.0 | 2.7 |
| 10°-20° | 235.8 | 7.7 |
| 20°-30° | 358.6 | 11.7 |
| 30°-40° | 435.3 | 14.2 |
| 40°-50° | 460.0 | 15.0 |
| 50°-60° | 430.4 | 14.0 |
| 60°-70° | 353.1 | 11.5 |
| 70°-80° | 242.9 | 7.9 |
| 80°-90° | 133.0 | 4.3 |
| 90°-100° | 85.7 | 2.8 |
| 100°-110° | 76.9 | 2.5 |
| 110°-120° | 63.6 | 2.1 |
| 120°-130° | 49.0 | 1.6 |
| 130°-140° | 34.4 | 1.1 |
| 140°-150° | 20.7 | 0.7 |
| 150°-160° | 9.9 | 0.3 |
| 160°-170° | 3.3 | 0.1 |
| 170°-180° | 0.4 | 0.0 |
| 0°-30° | 676.4 | 22.0 |
| 0°-40° | 1111.7 | 36.2 |
| 0°-60° | 2002.1 | 65.1 |
| 0°-90° | 2731.1 | 88.8 |
| 90°-120° | 226.1 | 7.4 |
| 90°-150° | 330.3 | 10.7 |
| 90°-180° | 344.0 | 11.2 |
| 0°-180° | 3075.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 864 | 864 | 864 | 864 | 864 | |
| 5° | 867 | 866 | 857 | 864 | 862 | 82 |
| 15° | 830 | 834 | 832 | 842 | 842 | 234 |
| 25° | 759 | 768 | 776 | 792 | 792 | 350 |
| 35° | 661 | 677 | 696 | 716 | 721 | 413 |
| 45° | 543 | 568 | 600 | 627 | 634 | 419 |
| 55° | 413 | 447 | 488 | 518 | 529 | 370 |
| 65° | 280 | 317 | 365 | 399 | 410 | 277 |
| 75° | 146 | 185 | 239 | 276 | 288 | 154 |
| 85° | 32 | 77 | 130 | 166 | 178 | 37 |
| 90° | 0 | 43 | 91 | 125 | 137 | 2 |
| 95° | 0 | 41 | 87 | 119 | 132 | 0 |
| 105° | 0 | 34 | 82 | 112 | 123 | 1 |
| 115° | 2 | 30 | 70 | 100 | 112 | 2 |
| 125° | 2 | 25 | 59 | 86 | 96 | 2 |
| 135° | 2 | 20 | 48 | 70 | 78 | 1 |
| 145° | 2 | 14 | 34 | 53 | 59 | 1 |
| 155° | 2 | 9 | 21 | 34 | 39 | 1 |
| 165° | 2 | 5 | 11 | 16 | 20 | 1 |
| 175° | 2 | 2 | 4 | 4 | 2 | 0 |
| 180° | 2 | 2 | 2 | 2 | 2 | |



TEST NUMBER: P566310

CATALOG NUMBER: 4SNX-33SL-SLW-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 863.8 | 863.8 | 863.8 | 863.8 | 863.8 |
| 2.5° | 869.1 | 867.3 | 858.4 | 865.6 | 862.0 |
| 5° | 867.3 | 865.6 | 856.7 | 863.8 | 862.0 |
| 7.5° | 860.2 | 860.2 | 854.9 | 862.0 | 860.2 |
| 10° | 853.1 | 853.1 | 847.7 | 856.7 | 854.9 |
| 12.5° | 842.4 | 844.2 | 840.6 | 851.3 | 849.5 |
| 15° | 829.9 | 833.5 | 831.7 | 842.4 | 842.4 |
| 17.5° | 815.7 | 819.3 | 819.3 | 831.7 | 831.7 |
| 20° | 797.9 | 803.2 | 806.8 | 821.0 | 821.0 |
| 22.5° | 780.1 | 787.2 | 792.5 | 805.0 | 810.3 |
| 25° | 758.7 | 767.6 | 776.5 | 792.5 | 792.5 |
| 27.5° | 737.3 | 748.0 | 758.7 | 774.7 | 776.5 |
| 30° | 712.4 | 724.9 | 739.1 | 755.1 | 758.7 |
| 32.5° | 687.5 | 703.5 | 717.7 | 737.3 | 742.7 |
| 35° | 660.7 | 676.8 | 696.4 | 716.0 | 721.3 |
| 37.5° | 630.5 | 650.1 | 675.0 | 696.4 | 701.7 |
| 40° | 603.8 | 625.1 | 650.1 | 675.0 | 680.3 |
| 42.5° | 573.5 | 596.6 | 626.9 | 650.1 | 659.0 |
| 45° | 543.2 | 568.1 | 600.2 | 626.9 | 634.0 |
| 47.5° | 511.1 | 539.6 | 575.3 | 600.2 | 609.1 |
| 50° | 479.1 | 509.4 | 546.8 | 575.3 | 582.4 |
| 52.5° | 447.0 | 479.1 | 518.3 | 546.8 | 555.7 |
| 55° | 413.2 | 447.0 | 488.0 | 518.3 | 529.0 |
| 57.5° | 381.1 | 415.0 | 457.7 | 489.8 | 500.5 |
| 60° | 345.5 | 384.7 | 427.4 | 459.5 | 472.0 |
| 62.5° | 315.2 | 350.9 | 397.2 | 429.2 | 439.9 |
| 65° | 279.6 | 317.0 | 365.1 | 398.9 | 409.6 |
| 67.5° | 245.8 | 285.0 | 333.0 | 368.7 | 379.3 |
| 70° | 211.9 | 251.1 | 302.8 | 336.6 | 349.1 |
| 72.5° | 178.1 | 219.1 | 268.9 | 306.3 | 318.8 |
| 75° | 146.0 | 185.2 | 238.7 | 276.1 | 288.5 |
| 77.5° | 112.2 | 154.9 | 208.4 | 245.8 | 260.0 |
| 80° | 81.9 | 126.4 | 179.9 | 217.3 | 231.5 |
| 82.5° | 55.2 | 99.7 | 153.2 | 190.6 | 204.8 |
| 85° | 32.1 | 76.6 | 130.0 | 165.6 | 178.1 |
| 87.5° | 16.0 | 58.8 | 108.6 | 144.3 | 156.7 |
| 90° | 0.0 | 42.7 | 90.8 | 124.7 | 137.1 |
| 92.5° | 0.0 | 41.0 | 89.0 | 121.1 | 133.6 |
| 95° | 0.0 | 41.0 | 87.3 | 119.3 | 131.8 |
| 97.5° | 0.0 | 39.2 | 85.5 | 119.3 | 130.0 |
| 100° | 0.0 | 37.4 | 85.5 | 117.5 | 128.2 |
| 102.5° | 0.0 | 35.6 | 83.7 | 115.8 | 126.4 |
| 105° | 0.0 | 33.8 | 81.9 | 112.2 | 122.9 |
| 107.5° | 1.8 | 33.8 | 78.4 | 110.4 | 121.1 |
| 110° | 1.8 | 32.1 | 74.8 | 108.6 | 119.3 |



TEST NUMBER: P566310

CATALOG NUMBER: 4SNX-33SL-SLW-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 1.8 | 30.3 | 71.2 | 105.1 | 115.8 |
| 115° | 1.8 | 30.3 | 69.5 | 99.7 | 112.2 |
| 117.5° | 1.8 | 28.5 | 65.9 | 96.2 | 108.6 |
| 120° | 1.8 | 28.5 | 64.1 | 92.6 | 103.3 |
| 122.5° | 1.8 | 26.7 | 60.6 | 89.0 | 99.7 |
| 125° | 1.8 | 24.9 | 58.8 | 85.5 | 96.2 |
| 127.5° | 1.8 | 23.2 | 57.0 | 81.9 | 92.6 |
| 130° | 1.8 | 21.4 | 53.4 | 78.4 | 87.3 |
| 132.5° | 1.8 | 21.4 | 51.6 | 73.0 | 83.7 |
| 135° | 1.8 | 19.6 | 48.1 | 69.5 | 78.4 |
| 137.5° | 1.8 | 17.8 | 44.5 | 65.9 | 74.8 |
| 140° | 1.8 | 16.0 | 41.0 | 62.3 | 69.5 |
| 142.5° | 1.8 | 16.0 | 37.4 | 57.0 | 64.1 |
| 145° | 1.8 | 14.2 | 33.8 | 53.4 | 58.8 |
| 147.5° | 1.8 | 12.5 | 30.3 | 48.1 | 53.4 |
| 150° | 1.8 | 12.5 | 26.7 | 42.7 | 48.1 |
| 152.5° | 1.8 | 10.7 | 23.2 | 39.2 | 44.5 |
| 155° | 1.8 | 8.9 | 21.4 | 33.8 | 39.2 |
| 157.5° | 1.8 | 8.9 | 17.8 | 28.5 | 33.8 |
| 160° | 1.8 | 7.1 | 16.0 | 23.2 | 28.5 |
| 162.5° | 1.8 | 7.1 | 14.2 | 19.6 | 24.9 |
| 165° | 1.8 | 5.3 | 10.7 | 16.0 | 19.6 |
| 167.5° | 1.8 | 5.3 | 8.9 | 12.5 | 16.0 |
| 170° | 1.8 | 3.6 | 7.1 | 8.9 | 12.5 |
| 172.5° | 1.8 | 3.6 | 5.3 | 5.3 | 5.3 |
| 175° | 1.8 | 1.8 | 3.6 | 3.6 | 1.8 |
| 177.5° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 180° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |

(END OF REPORT)