

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: P566305

Luminaire Tested: **4SNX-33SL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566305
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-LW-UNV-L850-CD
Description: 4FT 3300 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

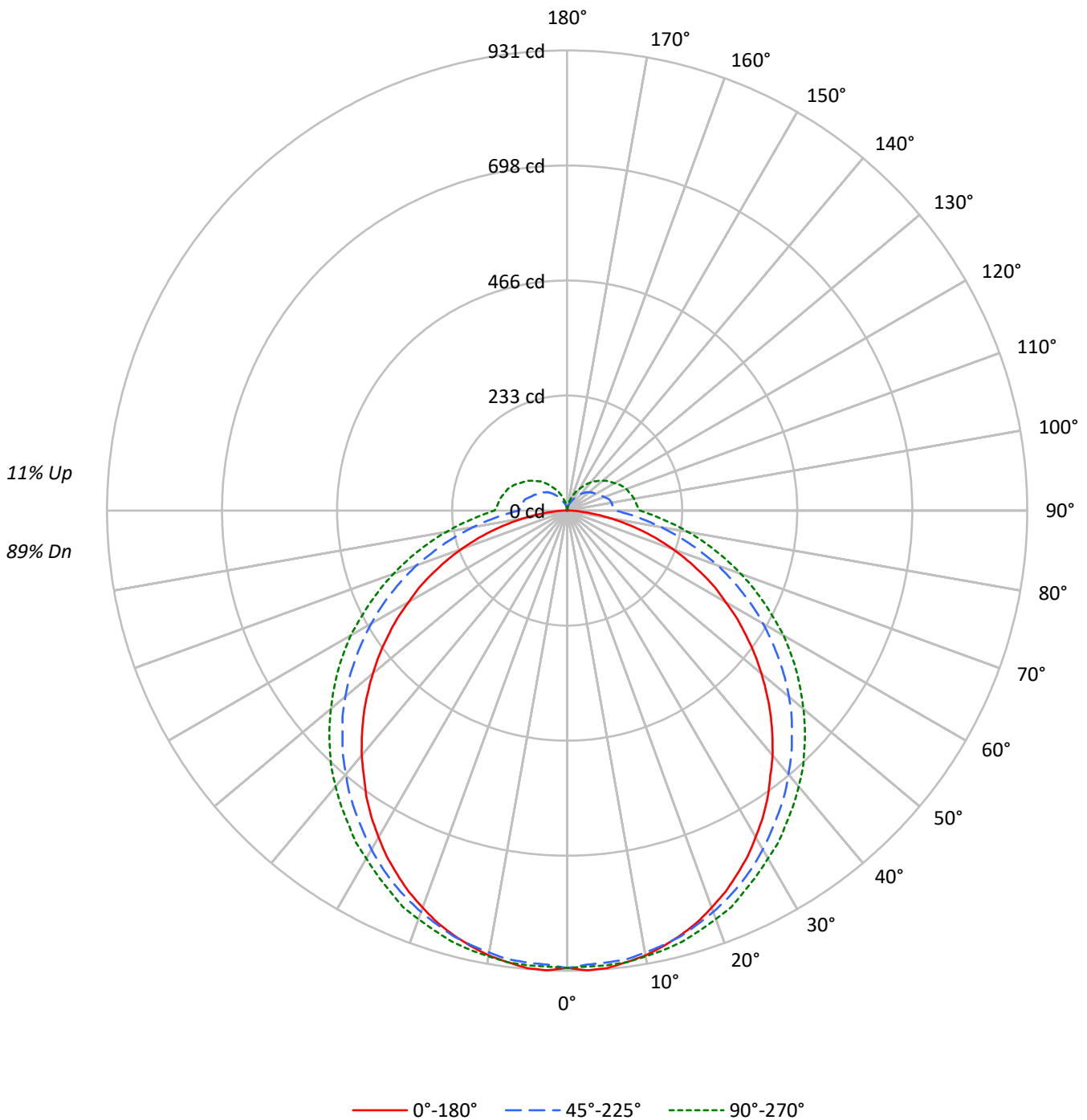
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3294.0 lumens
Efficiency: N/A
Efficacy: 156.1 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: 0.17')
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

TEST NUMBER: P566305
CATALOG NUMBER: 4SNX-33SL-LW-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566305

CATALOG NUMBER: 4SNX-33SL-LW-UNV-L850-CD

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° | 9960 | 9960 | 9960 |
| 5° | 10002 | 9499 | 9427 |
| 10° | 9915 | 9120 | 8957 |
| 15° | 9797 | 8754 | 8532 |
| 20° | 9644 | 8373 | 8107 |
| 25° | 9468 | 8009 | 7692 |
| 30° | 9262 | 7633 | 7294 |
| 35° | 9037 | 7257 | 6922 |
| 40° | 8781 | 6890 | 6567 |
| 45° | 8504 | 6521 | 6203 |
| 50° | 8187 | 6142 | 5822 |
| 55° | 7839 | 5719 | 5447 |
| 60° | 7431 | 5278 | 5051 |
| 65° | 7002 | 4803 | 4600 |
| 70° | 6410 | 4295 | 4156 |
| 75° | 5629 | 3705 | 3685 |
| 80° | 4402 | 3110 | 3215 |
| 85° | 2869 | 2558 | 2734 |



TEST NUMBER: P566305

CATALOG NUMBER: 4SNX-33SL-LW-UNV-L850-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.9 | 2.7 |
| 10°-20° | 252.6 | 7.7 |
| 20°-30° | 384.1 | 11.7 |
| 30°-40° | 466.3 | 14.2 |
| 40°-50° | 492.7 | 15.0 |
| 50°-60° | 461.1 | 14.0 |
| 60°-70° | 378.3 | 11.5 |
| 70°-80° | 260.2 | 7.9 |
| 80°-90° | 142.5 | 4.3 |
| 90°-100° | 91.8 | 2.8 |
| 100°-110° | 82.3 | 2.5 |
| 110°-120° | 68.1 | 2.1 |
| 120°-130° | 52.5 | 1.6 |
| 130°-140° | 36.9 | 1.1 |
| 140°-150° | 22.2 | 0.7 |
| 150°-160° | 10.6 | 0.3 |
| 160°-170° | 3.5 | 0.1 |
| 170°-180° | 0.4 | 0.0 |
| 0°-30° | 724.6 | 22.0 |
| 0°-40° | 1190.9 | 36.2 |
| 0°-60° | 2144.7 | 65.1 |
| 0°-90° | 2925.6 | 88.8 |
| 90°-120° | 242.2 | 7.4 |
| 90°-150° | 353.8 | 10.7 |
| 90°-180° | 368.0 | 11.2 |
| 0°-180° | 3294.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 925 | 925 | 925 | 925 | 925 | |
| 5° | 929 | 927 | 918 | 925 | 923 | 88 |
| 15° | 889 | 893 | 891 | 902 | 902 | 251 |
| 25° | 813 | 822 | 832 | 849 | 849 | 374 |
| 35° | 708 | 725 | 746 | 767 | 773 | 442 |
| 45° | 582 | 609 | 643 | 672 | 679 | 448 |
| 55° | 443 | 479 | 523 | 555 | 567 | 396 |
| 65° | 300 | 340 | 391 | 427 | 439 | 297 |
| 75° | 156 | 198 | 256 | 296 | 309 | 165 |
| 85° | 34 | 82 | 139 | 177 | 191 | 40 |
| 90° | 0 | 46 | 97 | 134 | 147 | 2 |
| 95° | 0 | 44 | 94 | 128 | 141 | 0 |
| 105° | 0 | 36 | 88 | 120 | 132 | 1 |
| 115° | 2 | 32 | 74 | 107 | 120 | 2 |
| 125° | 2 | 27 | 63 | 92 | 103 | 2 |
| 135° | 2 | 21 | 52 | 74 | 84 | 1 |
| 145° | 2 | 15 | 36 | 57 | 63 | 1 |
| 155° | 2 | 10 | 23 | 36 | 42 | 1 |
| 165° | 2 | 6 | 11 | 17 | 21 | 1 |
| 175° | 2 | 2 | 4 | 4 | 2 | 0 |
| 180° | 2 | 2 | 2 | 2 | 2 | |



TEST NUMBER: P566305

CATALOG NUMBER: 4SNX-33SL-LW-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 925.3 | 925.3 | 925.3 | 925.3 | 925.3 |
| 2.5° | 931.0 | 929.1 | 919.6 | 927.2 | 923.4 |
| 5° | 929.1 | 927.2 | 917.7 | 925.3 | 923.4 |
| 7.5° | 921.5 | 921.5 | 915.8 | 923.4 | 921.5 |
| 10° | 913.8 | 913.8 | 908.1 | 917.7 | 915.8 |
| 12.5° | 902.4 | 904.3 | 900.5 | 911.9 | 910.0 |
| 15° | 889.0 | 892.9 | 891.0 | 902.4 | 902.4 |
| 17.5° | 873.8 | 877.6 | 877.6 | 891.0 | 891.0 |
| 20° | 854.7 | 860.4 | 864.2 | 879.5 | 879.5 |
| 22.5° | 835.6 | 843.3 | 849.0 | 862.3 | 868.1 |
| 25° | 812.7 | 822.3 | 831.8 | 849.0 | 849.0 |
| 27.5° | 789.8 | 801.3 | 812.7 | 829.9 | 831.8 |
| 30° | 763.1 | 776.5 | 791.7 | 808.9 | 812.7 |
| 32.5° | 736.4 | 753.6 | 768.9 | 789.8 | 795.6 |
| 35° | 707.8 | 725.0 | 746.0 | 766.9 | 772.7 |
| 37.5° | 675.4 | 696.4 | 723.1 | 746.0 | 751.7 |
| 40° | 646.8 | 669.6 | 696.4 | 723.1 | 728.8 |
| 42.5° | 614.3 | 639.1 | 671.6 | 696.4 | 705.9 |
| 45° | 581.9 | 608.6 | 642.9 | 671.6 | 679.2 |
| 47.5° | 547.5 | 578.1 | 616.2 | 642.9 | 652.5 |
| 50° | 513.2 | 545.6 | 585.7 | 616.2 | 623.9 |
| 52.5° | 478.9 | 513.2 | 555.2 | 585.7 | 595.2 |
| 55° | 442.6 | 478.9 | 522.7 | 555.2 | 566.6 |
| 57.5° | 408.3 | 444.5 | 490.3 | 524.7 | 536.1 |
| 60° | 370.1 | 412.1 | 457.9 | 492.2 | 505.6 |
| 62.5° | 337.7 | 375.8 | 425.4 | 459.8 | 471.2 |
| 65° | 299.5 | 339.6 | 391.1 | 427.4 | 438.8 |
| 67.5° | 263.3 | 305.3 | 356.8 | 394.9 | 406.4 |
| 70° | 227.0 | 269.0 | 324.3 | 360.6 | 373.9 |
| 72.5° | 190.8 | 234.7 | 288.1 | 328.1 | 341.5 |
| 75° | 156.4 | 198.4 | 255.6 | 295.7 | 309.1 |
| 77.5° | 120.2 | 166.0 | 223.2 | 263.3 | 278.5 |
| 80° | 87.8 | 135.5 | 192.7 | 232.8 | 248.0 |
| 82.5° | 59.1 | 106.8 | 164.1 | 204.1 | 219.4 |
| 85° | 34.3 | 82.0 | 139.3 | 177.4 | 190.8 |
| 87.5° | 17.2 | 63.0 | 116.4 | 154.5 | 167.9 |
| 90° | 0.0 | 45.8 | 97.3 | 133.5 | 146.9 |
| 92.5° | 0.0 | 43.9 | 95.4 | 129.7 | 143.1 |
| 95° | 0.0 | 43.9 | 93.5 | 127.8 | 141.2 |
| 97.5° | 0.0 | 42.0 | 91.6 | 127.8 | 139.3 |
| 100° | 0.0 | 40.1 | 91.6 | 125.9 | 137.4 |
| 102.5° | 0.0 | 38.2 | 89.7 | 124.0 | 135.5 |
| 105° | 0.0 | 36.2 | 87.8 | 120.2 | 131.6 |
| 107.5° | 1.9 | 36.2 | 83.9 | 118.3 | 129.7 |
| 110° | 1.9 | 34.3 | 80.1 | 116.4 | 127.8 |



TEST NUMBER: P566305

CATALOG NUMBER: 4SNX-33SL-LW-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 1.9 | 32.4 | 76.3 | 112.6 | 124.0 |
| 115° | 1.9 | 32.4 | 74.4 | 106.8 | 120.2 |
| 117.5° | 1.9 | 30.5 | 70.6 | 103.0 | 116.4 |
| 120° | 1.9 | 30.5 | 68.7 | 99.2 | 110.7 |
| 122.5° | 1.9 | 28.6 | 64.9 | 95.4 | 106.8 |
| 125° | 1.9 | 26.7 | 63.0 | 91.6 | 103.0 |
| 127.5° | 1.9 | 24.8 | 61.1 | 87.8 | 99.2 |
| 130° | 1.9 | 22.9 | 57.2 | 83.9 | 93.5 |
| 132.5° | 1.9 | 22.9 | 55.3 | 78.2 | 89.7 |
| 135° | 1.9 | 21.0 | 51.5 | 74.4 | 83.9 |
| 137.5° | 1.9 | 19.1 | 47.7 | 70.6 | 80.1 |
| 140° | 1.9 | 17.2 | 43.9 | 66.8 | 74.4 |
| 142.5° | 1.9 | 17.2 | 40.1 | 61.1 | 68.7 |
| 145° | 1.9 | 15.3 | 36.2 | 57.2 | 63.0 |
| 147.5° | 1.9 | 13.4 | 32.4 | 51.5 | 57.2 |
| 150° | 1.9 | 13.4 | 28.6 | 45.8 | 51.5 |
| 152.5° | 1.9 | 11.4 | 24.8 | 42.0 | 47.7 |
| 155° | 1.9 | 9.5 | 22.9 | 36.2 | 42.0 |
| 157.5° | 1.9 | 9.5 | 19.1 | 30.5 | 36.2 |
| 160° | 1.9 | 7.6 | 17.2 | 24.8 | 30.5 |
| 162.5° | 1.9 | 7.6 | 15.3 | 21.0 | 26.7 |
| 165° | 1.9 | 5.7 | 11.4 | 17.2 | 21.0 |
| 167.5° | 1.9 | 5.7 | 9.5 | 13.4 | 17.2 |
| 170° | 1.9 | 3.8 | 7.6 | 9.5 | 13.4 |
| 172.5° | 1.9 | 3.8 | 5.7 | 5.7 | 5.7 |
| 175° | 1.9 | 1.9 | 3.8 | 3.8 | 1.9 |
| 177.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 180° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |

(END OF REPORT)