

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: P565825

Luminaire Tested: **2SNX-47HL-SLW-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNX-47HL-SLW-UNV-L950-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

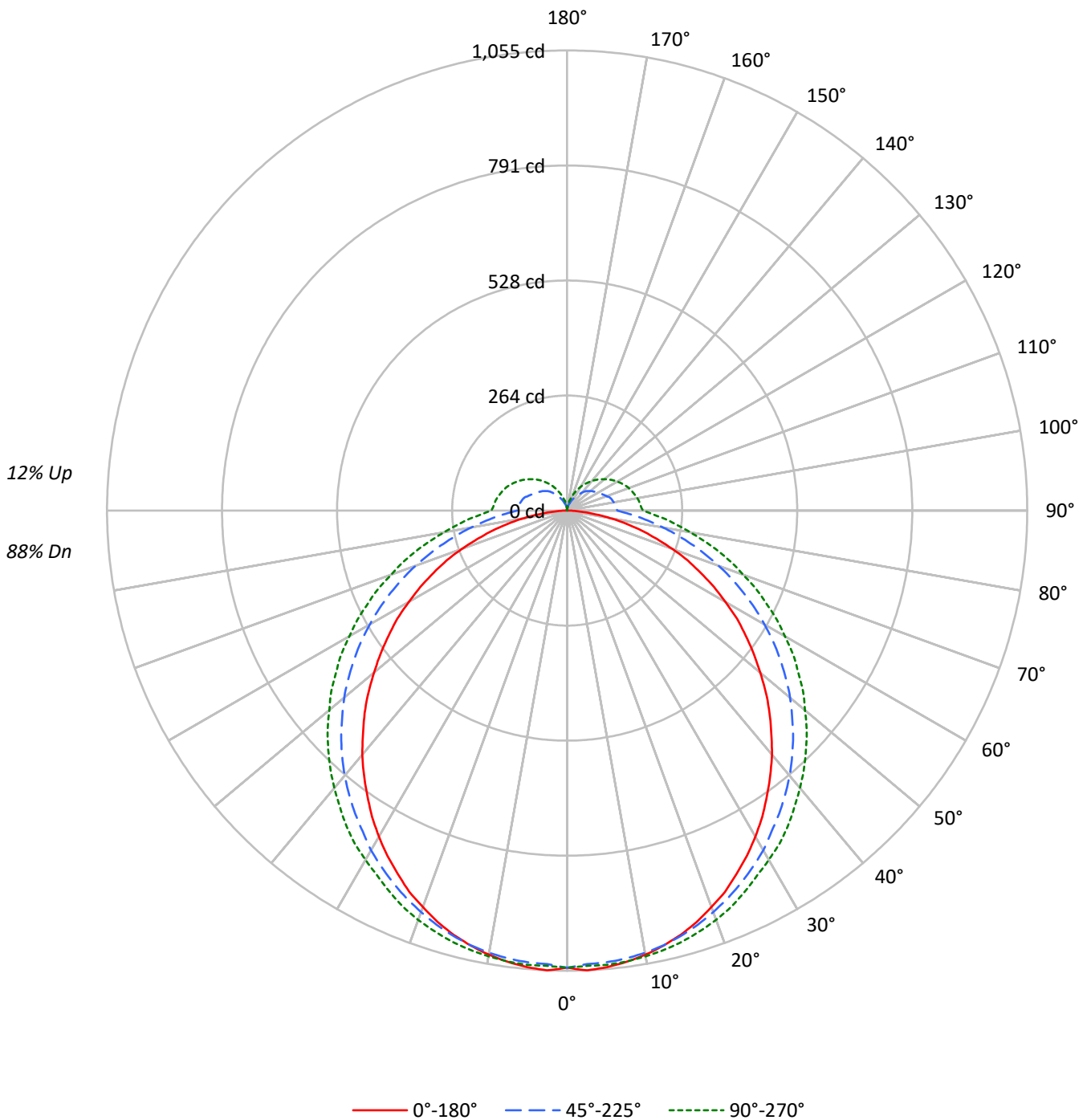
Lumens per Lamp: N/A
Luminaire Lumens: 3773.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 33.7
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: P565825

CATALOG NUMBER: 2SNX-47HL-SLW-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P565825

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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 | 91 | 91 | 91 | 88 |
| 1 | 105 | 99 | 95 | 90 | 101 | 96 | 92 | 88 | 89 | 86 | 83 | 84 | 81 | 78 | 78 | 76 | 74 | 71 |
| 2 | 95 | 86 | 79 | 72 | 91 | 83 | 76 | 71 | 77 | 72 | 67 | 72 | 68 | 64 | 68 | 64 | 61 | 58 |
| 3 | 86 | 75 | 66 | 60 | 82 | 72 | 65 | 58 | 68 | 61 | 56 | 63 | 58 | 53 | 59 | 55 | 51 | 48 |
| 4 | 78 | 66 | 57 | 50 | 75 | 64 | 56 | 49 | 60 | 53 | 47 | 56 | 50 | 45 | 53 | 48 | 43 | 41 |
| 5 | 72 | 59 | 50 | 43 | 69 | 57 | 48 | 42 | 54 | 46 | 41 | 50 | 44 | 39 | 47 | 42 | 38 | 35 |
| 6 | 66 | 53 | 44 | 37 | 64 | 51 | 43 | 37 | 48 | 41 | 35 | 45 | 39 | 34 | 43 | 37 | 33 | 31 |
| 7 | 61 | 48 | 39 | 33 | 59 | 46 | 38 | 32 | 44 | 36 | 31 | 41 | 35 | 30 | 39 | 33 | 29 | 27 |
| 8 | 57 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 40 | 33 | 28 | 38 | 31 | 27 | 36 | 30 | 26 | 24 |
| 9 | 53 | 40 | 32 | 26 | 51 | 39 | 31 | 26 | 37 | 30 | 25 | 35 | 29 | 24 | 33 | 27 | 23 | 21 |
| 10 | 50 | 37 | 29 | 23 | 48 | 36 | 28 | 23 | 34 | 27 | 22 | 32 | 26 | 22 | 31 | 25 | 21 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 22561 | 22561 | 22561 |
| 5° | 22621 | 21958 | 21953 |
| 10° | 22435 | 21499 | 21430 |
| 15° | 22188 | 21006 | 20933 |
| 20° | 21828 | 20472 | 20417 |
| 25° | 21410 | 19937 | 19828 |
| 30° | 20956 | 19399 | 19287 |
| 35° | 20395 | 18801 | 18820 |
| 40° | 19846 | 18252 | 18250 |
| 45° | 19188 | 17646 | 17707 |
| 50° | 18433 | 17001 | 17086 |
| 55° | 17695 | 16254 | 16468 |
| 60° | 16843 | 15442 | 15754 |
| 65° | 15806 | 14520 | 14996 |
| 70° | 14492 | 13481 | 14122 |
| 75° | 12654 | 12286 | 13321 |
| 80° | 10116 | 11098 | 12308 |
| 85° | 6500 | 10006 | 11648 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.5 | 2.6 |
| 10°-20° | 286.2 | 7.6 |
| 20°-30° | 435.4 | 11.5 |
| 30°-40° | 529.4 | 14.0 |
| 40°-50° | 560.1 | 14.8 |
| 50°-60° | 525.0 | 13.9 |
| 60°-70° | 431.9 | 11.4 |
| 70°-80° | 298.8 | 7.9 |
| 80°-90° | 166.2 | 4.4 |
| 90°-100° | 109.5 | 2.9 |
| 100°-110° | 98.2 | 2.6 |
| 110°-120° | 81.3 | 2.2 |
| 120°-130° | 62.8 | 1.7 |
| 130°-140° | 44.5 | 1.2 |
| 140°-150° | 26.8 | 0.7 |
| 150°-160° | 12.9 | 0.3 |
| 160°-170° | 4.2 | 0.1 |
| 170°-180° | 0.5 | 0.0 |
| 0°-30° | 821.1 | 21.8 |
| 0°-40° | 1350.4 | 35.8 |
| 0°-60° | 2435.5 | 64.6 |
| 0°-90° | 3332.4 | 88.3 |
| 90°-120° | 288.9 | 7.7 |
| 90°-150° | 423.0 | 11.2 |
| 90°-180° | 441.0 | 11.7 |
| 0°-180° | 3773.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1048 | 1048 | 1048 | 1048 | 1048 | |
| 5° | 1051 | 1049 | 1040 | 1048 | 1045 | 100 |
| 15° | 1007 | 1010 | 1009 | 1023 | 1023 | 284 |
| 25° | 919 | 932 | 943 | 963 | 964 | 424 |
| 35° | 799 | 820 | 848 | 875 | 883 | 500 |
| 45° | 656 | 691 | 733 | 766 | 775 | 506 |
| 55° | 499 | 544 | 596 | 634 | 647 | 447 |
| 65° | 338 | 386 | 446 | 490 | 504 | 335 |
| 75° | 176 | 227 | 293 | 340 | 359 | 186 |
| 85° | 39 | 96 | 163 | 208 | 226 | 45 |
| 90° | 1 | 54 | 115 | 158 | 174 | 3 |
| 95° | 1 | 52 | 112 | 153 | 168 | 0 |
| 105° | 1 | 45 | 105 | 144 | 157 | 1 |
| 115° | 1 | 39 | 88 | 128 | 142 | 1 |
| 125° | 1 | 33 | 76 | 109 | 123 | 1 |
| 135° | 1 | 26 | 63 | 90 | 101 | 1 |
| 145° | 1 | 19 | 44 | 68 | 76 | 1 |
| 155° | 2 | 13 | 27 | 43 | 50 | 1 |
| 165° | 2 | 8 | 15 | 20 | 26 | 1 |
| 175° | 2 | 3 | 4 | 4 | 3 | 0 |
| 180° | 1 | 1 | 1 | 1 | 1 | |



TEST NUMBER: P565825

CATALOG NUMBER: 2SNX-47HL-SLW-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1048.0 | 1048.0 | 1048.0 | 1048.0 | 1048.0 |
| 2.5° | 1055.1 | 1051.9 | 1040.9 | 1048.0 | 1044.8 |
| 5° | 1050.6 | 1048.6 | 1039.6 | 1048.0 | 1045.4 |
| 7.5° | 1043.5 | 1042.8 | 1035.7 | 1045.4 | 1042.8 |
| 10° | 1033.8 | 1035.1 | 1029.3 | 1039.6 | 1037.7 |
| 12.5° | 1021.5 | 1023.4 | 1020.9 | 1032.5 | 1031.2 |
| 15° | 1006.6 | 1009.9 | 1009.2 | 1022.8 | 1022.8 |
| 17.5° | 988.6 | 993.1 | 995.7 | 1011.2 | 1011.2 |
| 20° | 967.2 | 974.3 | 979.5 | 996.3 | 998.9 |
| 22.5° | 945.9 | 954.3 | 962.1 | 979.5 | 983.4 |
| 25° | 918.8 | 931.7 | 942.7 | 963.4 | 964.0 |
| 27.5° | 892.3 | 906.5 | 921.4 | 941.4 | 943.3 |
| 30° | 863.2 | 881.3 | 899.4 | 918.8 | 924.6 |
| 32.5° | 832.2 | 852.2 | 872.3 | 898.1 | 905.8 |
| 35° | 798.6 | 819.9 | 847.7 | 874.8 | 882.6 |
| 37.5° | 765.0 | 788.9 | 821.2 | 849.0 | 856.1 |
| 40° | 730.8 | 757.2 | 793.4 | 821.9 | 830.3 |
| 42.5° | 692.6 | 724.9 | 763.7 | 794.1 | 803.8 |
| 45° | 656.4 | 690.7 | 732.7 | 765.6 | 774.7 |
| 47.5° | 618.3 | 654.5 | 699.7 | 734.6 | 745.0 |
| 50° | 577.6 | 619.0 | 667.4 | 702.3 | 712.0 |
| 52.5° | 539.5 | 581.5 | 632.5 | 668.7 | 682.3 |
| 55° | 499.4 | 544.0 | 596.4 | 633.8 | 646.8 |
| 57.5° | 462.0 | 504.6 | 560.8 | 598.3 | 614.5 |
| 60° | 419.3 | 466.5 | 522.7 | 563.4 | 576.3 |
| 62.5° | 379.3 | 427.1 | 485.2 | 527.2 | 542.1 |
| 65° | 337.9 | 386.4 | 446.5 | 490.4 | 504.0 |
| 67.5° | 299.1 | 347.0 | 408.3 | 451.6 | 469.1 |
| 70° | 256.5 | 306.9 | 369.6 | 414.2 | 429.0 |
| 72.5° | 214.5 | 266.8 | 330.8 | 378.6 | 395.4 |
| 75° | 175.7 | 226.8 | 293.3 | 339.9 | 358.6 |
| 77.5° | 138.3 | 190.0 | 257.2 | 305.0 | 321.1 |
| 80° | 100.8 | 155.1 | 223.6 | 270.7 | 286.2 |
| 82.5° | 66.5 | 123.4 | 191.2 | 238.4 | 255.2 |
| 85° | 38.8 | 96.3 | 162.8 | 208.0 | 226.1 |
| 87.5° | 16.8 | 73.0 | 136.3 | 180.9 | 195.8 |
| 90° | 0.6 | 54.3 | 115.0 | 158.3 | 173.8 |
| 92.5° | 0.6 | 53.0 | 112.4 | 155.1 | 169.9 |
| 95° | 0.6 | 51.7 | 111.8 | 153.1 | 168.0 |
| 97.5° | 0.6 | 51.0 | 110.5 | 151.8 | 166.1 |
| 100° | 0.6 | 49.1 | 108.5 | 149.3 | 163.5 |
| 102.5° | 0.6 | 46.5 | 106.6 | 146.7 | 160.2 |
| 105° | 0.6 | 44.6 | 104.7 | 144.1 | 157.0 |
| 107.5° | 0.6 | 42.6 | 101.4 | 140.9 | 153.8 |
| 110° | 0.6 | 40.7 | 96.3 | 137.6 | 150.5 |



TEST NUMBER: P565825

CATALOG NUMBER: 2SNX-47HL-SLW-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.6 | 40.1 | 92.4 | 133.1 | 146.7 |
| 115° | 1.3 | 38.8 | 88.5 | 127.9 | 142.1 |
| 117.5° | 1.3 | 38.1 | 85.3 | 122.8 | 137.6 |
| 120° | 1.3 | 36.2 | 82.1 | 118.2 | 132.5 |
| 122.5° | 1.3 | 34.2 | 78.8 | 113.7 | 127.9 |
| 125° | 1.3 | 33.0 | 75.6 | 109.2 | 122.8 |
| 127.5° | 1.3 | 31.0 | 73.0 | 104.7 | 116.9 |
| 130° | 1.3 | 29.7 | 69.8 | 99.5 | 111.8 |
| 132.5° | 1.3 | 27.8 | 66.5 | 94.3 | 106.0 |
| 135° | 1.3 | 25.8 | 63.3 | 89.8 | 100.8 |
| 137.5° | 1.3 | 23.3 | 59.4 | 84.6 | 95.0 |
| 140° | 1.3 | 21.3 | 54.3 | 79.5 | 89.2 |
| 142.5° | 1.3 | 20.0 | 49.1 | 73.7 | 82.7 |
| 145° | 1.3 | 18.7 | 43.9 | 67.8 | 76.2 |
| 147.5° | 1.3 | 17.4 | 39.4 | 62.0 | 69.8 |
| 150° | 1.3 | 15.5 | 34.9 | 56.9 | 63.3 |
| 152.5° | 1.9 | 14.2 | 31.0 | 50.4 | 56.9 |
| 155° | 1.9 | 12.9 | 27.1 | 43.3 | 50.4 |
| 157.5° | 1.9 | 11.6 | 23.3 | 36.2 | 43.9 |
| 160° | 1.9 | 10.3 | 20.0 | 29.7 | 37.5 |
| 162.5° | 1.9 | 9.7 | 17.4 | 24.6 | 31.7 |
| 165° | 1.9 | 8.4 | 14.9 | 20.0 | 25.8 |
| 167.5° | 1.9 | 6.5 | 12.3 | 15.5 | 21.3 |
| 170° | 1.9 | 5.2 | 9.7 | 11.0 | 16.2 |
| 172.5° | 1.9 | 3.9 | 7.1 | 7.8 | 8.4 |
| 175° | 1.9 | 3.2 | 4.5 | 4.5 | 2.6 |
| 177.5° | 1.9 | 2.6 | 2.6 | 2.6 | 1.3 |
| 180° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |

(END OF REPORT)