

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: P566449

Luminaire Tested: **4SNX-45SL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566449
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-45SL-LW-UNV-L850-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

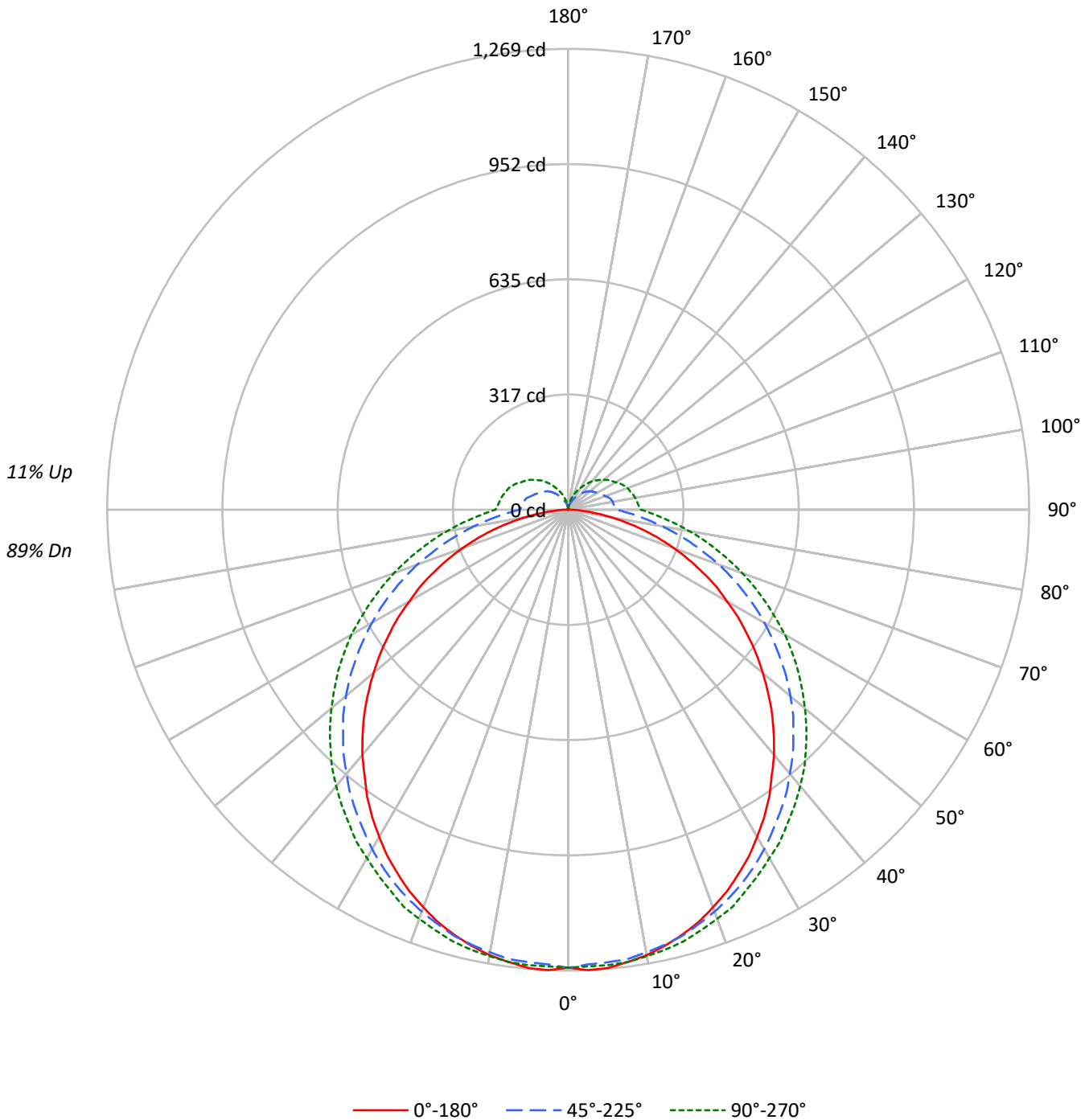
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4489.9 lumens
Efficiency: N/A
Efficacy: 150.7 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: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 29.8
Input Voltage (V): NR
Input Current (A_{in}): 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: P566449
CATALOG NUMBER: 4SNX-45SL-LW-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566449

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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° | 13577 | 13577 | 13577 |
| 5° | 13635 | 12948 | 12851 |
| 10° | 13515 | 12431 | 12208 |
| 15° | 13355 | 11931 | 11629 |
| 20° | 13145 | 11413 | 11050 |
| 25° | 12906 | 10916 | 10484 |
| 30° | 12625 | 10405 | 9942 |
| 35° | 12318 | 9892 | 9435 |
| 40° | 11969 | 9391 | 8951 |
| 45° | 11591 | 8889 | 8456 |
| 50° | 11159 | 8372 | 7936 |
| 55° | 10686 | 7795 | 7425 |
| 60° | 10130 | 7194 | 6885 |
| 65° | 9546 | 6546 | 6270 |
| 70° | 8740 | 5856 | 5665 |
| 75° | 7673 | 5051 | 5023 |
| 80° | 5997 | 4240 | 4384 |
| 85° | 3915 | 3486 | 3726 |



TEST NUMBER: P566449

CATALOG NUMBER: 4SNX-45SL-LW-UNV-L850-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 119.8 | 2.7 |
| 10°-20° | 344.3 | 7.7 |
| 20°-30° | 523.6 | 11.7 |
| 30°-40° | 635.6 | 14.2 |
| 40°-50° | 671.6 | 15.0 |
| 50°-60° | 628.5 | 14.0 |
| 60°-70° | 515.6 | 11.5 |
| 70°-80° | 354.7 | 7.9 |
| 80°-90° | 194.2 | 4.3 |
| 90°-100° | 125.0 | 2.8 |
| 100°-110° | 112.2 | 2.5 |
| 110°-120° | 92.9 | 2.1 |
| 120°-130° | 71.5 | 1.6 |
| 130°-140° | 50.3 | 1.1 |
| 140°-150° | 30.3 | 0.7 |
| 150°-160° | 14.5 | 0.3 |
| 160°-170° | 4.8 | 0.1 |
| 170°-180° | 0.6 | 0.0 |
| 0°-30° | 987.7 | 22.0 |
| 0°-40° | 1623.2 | 36.2 |
| 0°-60° | 2923.3 | 65.1 |
| 0°-90° | 3987.9 | 88.8 |
| 90°-120° | 330.1 | 7.4 |
| 90°-150° | 482.2 | 10.7 |
| 90°-180° | 502.0 | 11.2 |
| 0°-180° | 4489.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1261 | 1261 | 1261 | 1261 | 1261 | |
| 5° | 1266 | 1264 | 1251 | 1261 | 1259 | 120 |
| 15° | 1212 | 1217 | 1214 | 1230 | 1230 | 342 |
| 25° | 1108 | 1121 | 1134 | 1157 | 1157 | 510 |
| 35° | 965 | 988 | 1017 | 1045 | 1053 | 603 |
| 45° | 793 | 830 | 876 | 915 | 926 | 611 |
| 55° | 603 | 653 | 712 | 757 | 772 | 540 |
| 65° | 408 | 463 | 533 | 582 | 598 | 404 |
| 75° | 213 | 270 | 348 | 403 | 421 | 225 |
| 85° | 47 | 112 | 190 | 242 | 260 | 54 |
| 90° | 0 | 62 | 133 | 182 | 200 | 3 |
| 95° | 0 | 60 | 127 | 174 | 192 | 0 |
| 105° | 0 | 49 | 120 | 164 | 179 | 2 |
| 115° | 3 | 44 | 101 | 146 | 164 | 3 |
| 125° | 3 | 36 | 86 | 125 | 140 | 2 |
| 135° | 3 | 29 | 70 | 101 | 114 | 2 |
| 145° | 3 | 21 | 49 | 78 | 86 | 2 |
| 155° | 3 | 13 | 31 | 49 | 57 | 1 |
| 165° | 3 | 8 | 16 | 23 | 29 | 1 |
| 175° | 3 | 3 | 5 | 5 | 3 | 0 |
| 180° | 3 | 3 | 3 | 3 | 3 | |



TEST NUMBER: P566449

CATALOG NUMBER: 4SNX-45SL-LW-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1261.3 | 1261.3 | 1261.3 | 1261.3 | 1261.3 |
| 2.5° | 1269.1 | 1266.5 | 1253.4 | 1263.9 | 1258.7 |
| 5° | 1266.5 | 1263.9 | 1250.8 | 1261.3 | 1258.7 |
| 7.5° | 1256.1 | 1256.1 | 1248.2 | 1258.7 | 1256.1 |
| 10° | 1245.6 | 1245.6 | 1237.8 | 1250.8 | 1248.2 |
| 12.5° | 1230.0 | 1232.6 | 1227.4 | 1243.0 | 1240.4 |
| 15° | 1211.8 | 1217.0 | 1214.4 | 1230.0 | 1230.0 |
| 17.5° | 1191.0 | 1196.2 | 1196.2 | 1214.4 | 1214.4 |
| 20° | 1165.0 | 1172.8 | 1178.0 | 1198.8 | 1198.8 |
| 22.5° | 1139.0 | 1149.4 | 1157.2 | 1175.4 | 1183.2 |
| 25° | 1107.8 | 1120.8 | 1133.8 | 1157.2 | 1157.2 |
| 27.5° | 1076.6 | 1092.2 | 1107.8 | 1131.2 | 1133.8 |
| 30° | 1040.2 | 1058.4 | 1079.2 | 1102.6 | 1107.8 |
| 32.5° | 1003.8 | 1027.2 | 1048.0 | 1076.6 | 1084.4 |
| 35° | 964.8 | 988.2 | 1016.8 | 1045.4 | 1053.2 |
| 37.5° | 920.6 | 949.2 | 985.6 | 1016.8 | 1024.6 |
| 40° | 881.6 | 912.8 | 949.2 | 985.6 | 993.4 |
| 42.5° | 837.4 | 871.2 | 915.4 | 949.2 | 962.2 |
| 45° | 793.2 | 829.6 | 876.4 | 915.4 | 925.8 |
| 47.5° | 746.3 | 788.0 | 840.0 | 876.4 | 889.4 |
| 50° | 699.5 | 743.7 | 798.4 | 840.0 | 850.4 |
| 52.5° | 652.7 | 699.5 | 756.8 | 798.4 | 811.4 |
| 55° | 603.3 | 652.7 | 712.5 | 756.8 | 772.4 |
| 57.5° | 556.5 | 605.9 | 668.3 | 715.1 | 730.7 |
| 60° | 504.5 | 561.7 | 624.1 | 670.9 | 689.1 |
| 62.5° | 460.3 | 512.3 | 579.9 | 626.7 | 642.3 |
| 65° | 408.3 | 462.9 | 533.1 | 582.5 | 598.1 |
| 67.5° | 358.9 | 416.1 | 486.3 | 538.3 | 553.9 |
| 70° | 309.5 | 366.7 | 442.1 | 491.5 | 509.7 |
| 72.5° | 260.1 | 319.9 | 392.7 | 447.3 | 465.5 |
| 75° | 213.2 | 270.5 | 348.5 | 403.1 | 421.3 |
| 77.5° | 163.8 | 226.2 | 304.3 | 358.9 | 379.7 |
| 80° | 119.6 | 184.6 | 262.7 | 317.3 | 338.1 |
| 82.5° | 80.6 | 145.6 | 223.6 | 278.3 | 299.1 |
| 85° | 46.8 | 111.8 | 189.8 | 241.8 | 260.1 |
| 87.5° | 23.4 | 85.8 | 158.6 | 210.6 | 228.8 |
| 90° | 0.0 | 62.4 | 132.6 | 182.0 | 200.2 |
| 92.5° | 0.0 | 59.8 | 130.0 | 176.8 | 195.0 |
| 95° | 0.0 | 59.8 | 127.4 | 174.2 | 192.4 |
| 97.5° | 0.0 | 57.2 | 124.8 | 174.2 | 189.8 |
| 100° | 0.0 | 54.6 | 124.8 | 171.6 | 187.2 |
| 102.5° | 0.0 | 52.0 | 122.2 | 169.0 | 184.6 |
| 105° | 0.0 | 49.4 | 119.6 | 163.8 | 179.4 |
| 107.5° | 2.6 | 49.4 | 114.4 | 161.2 | 176.8 |
| 110° | 2.6 | 46.8 | 109.2 | 158.6 | 174.2 |



TEST NUMBER: P566449

CATALOG NUMBER: 4SNX-45SL-LW-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.6 | 44.2 | 104.0 | 153.4 | 169.0 |
| 115° | 2.6 | 44.2 | 101.4 | 145.6 | 163.8 |
| 117.5° | 2.6 | 41.6 | 96.2 | 140.4 | 158.6 |
| 120° | 2.6 | 41.6 | 93.6 | 135.2 | 150.8 |
| 122.5° | 2.6 | 39.0 | 88.4 | 130.0 | 145.6 |
| 125° | 2.6 | 36.4 | 85.8 | 124.8 | 140.4 |
| 127.5° | 2.6 | 33.8 | 83.2 | 119.6 | 135.2 |
| 130° | 2.6 | 31.2 | 78.0 | 114.4 | 127.4 |
| 132.5° | 2.6 | 31.2 | 75.4 | 106.6 | 122.2 |
| 135° | 2.6 | 28.6 | 70.2 | 101.4 | 114.4 |
| 137.5° | 2.6 | 26.0 | 65.0 | 96.2 | 109.2 |
| 140° | 2.6 | 23.4 | 59.8 | 91.0 | 101.4 |
| 142.5° | 2.6 | 23.4 | 54.6 | 83.2 | 93.6 |
| 145° | 2.6 | 20.8 | 49.4 | 78.0 | 85.8 |
| 147.5° | 2.6 | 18.2 | 44.2 | 70.2 | 78.0 |
| 150° | 2.6 | 18.2 | 39.0 | 62.4 | 70.2 |
| 152.5° | 2.6 | 15.6 | 33.8 | 57.2 | 65.0 |
| 155° | 2.6 | 13.0 | 31.2 | 49.4 | 57.2 |
| 157.5° | 2.6 | 13.0 | 26.0 | 41.6 | 49.4 |
| 160° | 2.6 | 10.4 | 23.4 | 33.8 | 41.6 |
| 162.5° | 2.6 | 10.4 | 20.8 | 28.6 | 36.4 |
| 165° | 2.6 | 7.8 | 15.6 | 23.4 | 28.6 |
| 167.5° | 2.6 | 7.8 | 13.0 | 18.2 | 23.4 |
| 170° | 2.6 | 5.2 | 10.4 | 13.0 | 18.2 |
| 172.5° | 2.6 | 5.2 | 7.8 | 7.8 | 7.8 |
| 175° | 2.6 | 2.6 | 5.2 | 5.2 | 2.6 |
| 177.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 180° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |

(END OF REPORT)