

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: P567851

Luminaire Tested: **8SNX-52SL-LW-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567851
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: 8SNX-52SL-LW-UNV-L835-CD
Description: 8FT 5200 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

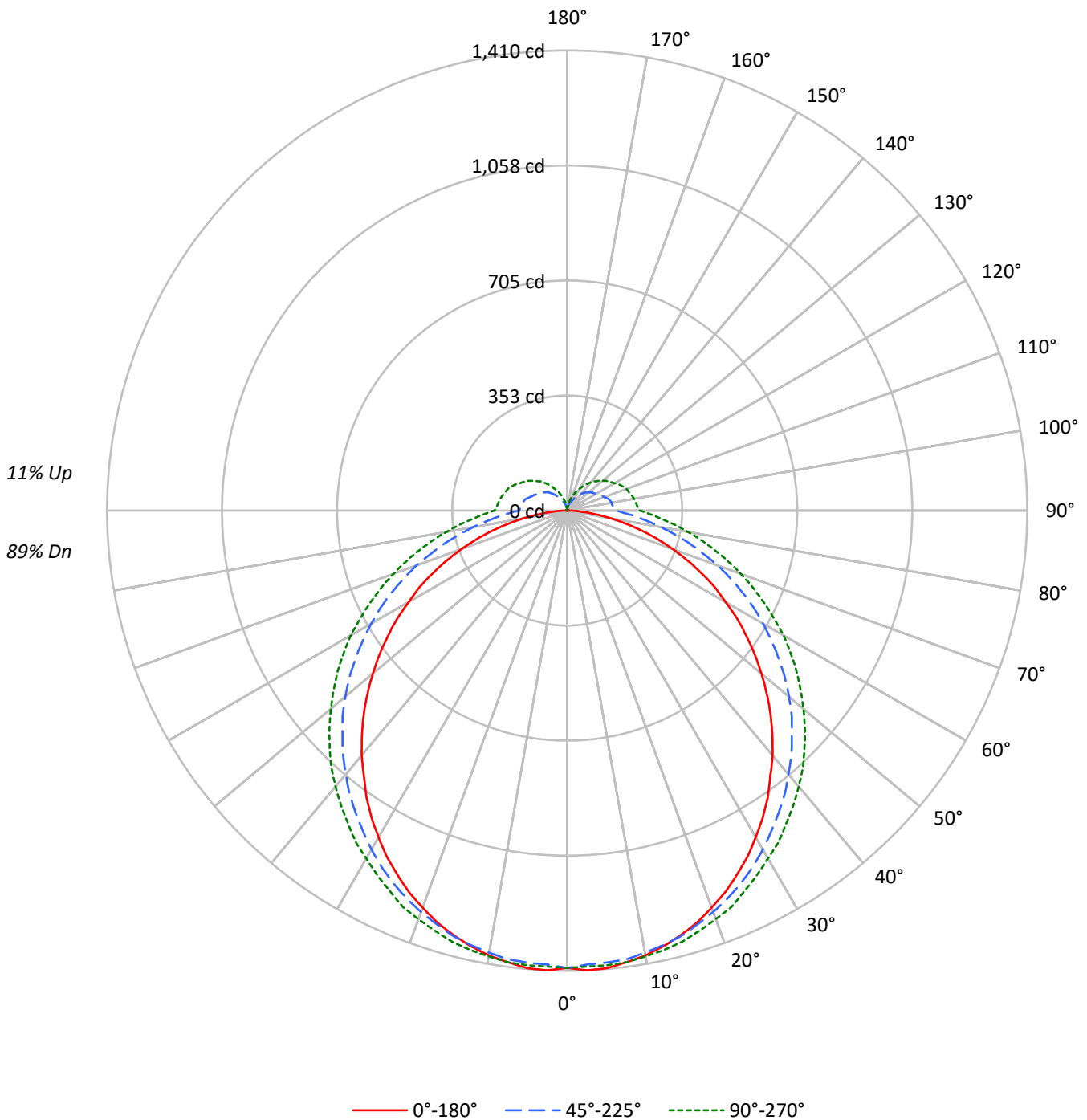
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4989.0 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 32.8
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 | 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 | 76 | 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° | 7542 | 7542 | 7542 |
| 5° | 7589 | 7203 | 7139 |
| 10° | 7536 | 6923 | 6783 |
| 15° | 7461 | 6652 | 6461 |
| 20° | 7358 | 6370 | 6140 |
| 25° | 7239 | 6099 | 5825 |
| 30° | 7097 | 5819 | 5523 |
| 35° | 6942 | 5538 | 5242 |
| 40° | 6764 | 5263 | 4973 |
| 45° | 6571 | 4987 | 4698 |
| 50° | 6351 | 4703 | 4409 |
| 55° | 6109 | 4385 | 4125 |
| 60° | 5824 | 4052 | 3825 |
| 65° | 5531 | 3693 | 3483 |
| 70° | 5119 | 3309 | 3147 |
| 75° | 4571 | 2861 | 2791 |
| 80° | 3684 | 2407 | 2435 |
| 85° | 2593 | 1986 | 2070 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 133.1 | 2.7 |
| 10°-20° | 382.6 | 7.7 |
| 20°-30° | 581.8 | 11.7 |
| 30°-40° | 706.2 | 14.2 |
| 40°-50° | 746.2 | 15.0 |
| 50°-60° | 698.3 | 14.0 |
| 60°-70° | 573.0 | 11.5 |
| 70°-80° | 394.1 | 7.9 |
| 80°-90° | 215.8 | 4.3 |
| 90°-100° | 139.0 | 2.8 |
| 100°-110° | 124.7 | 2.5 |
| 110°-120° | 103.2 | 2.1 |
| 120°-130° | 79.5 | 1.6 |
| 130°-140° | 55.9 | 1.1 |
| 140°-150° | 33.7 | 0.7 |
| 150°-160° | 16.1 | 0.3 |
| 160°-170° | 5.3 | 0.1 |
| 170°-180° | 0.6 | 0.0 |
| 0°-30° | 1097.5 | 22.0 |
| 0°-40° | 1803.7 | 36.2 |
| 0°-60° | 3248.2 | 65.1 |
| 0°-90° | 4431.1 | 88.8 |
| 90°-120° | 366.9 | 7.4 |
| 90°-150° | 535.9 | 10.7 |
| 90°-180° | 558.0 | 11.2 |
| 0°-180° | 4989.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1401 | 1401 | 1401 | 1401 | 1401 | |
| 5° | 1407 | 1404 | 1390 | 1401 | 1398 | 133 |
| 15° | 1346 | 1352 | 1349 | 1367 | 1367 | 380 |
| 25° | 1231 | 1245 | 1260 | 1286 | 1286 | 567 |
| 35° | 1072 | 1098 | 1130 | 1162 | 1170 | 670 |
| 45° | 881 | 922 | 974 | 1017 | 1029 | 679 |
| 55° | 670 | 725 | 792 | 841 | 858 | 600 |
| 65° | 454 | 514 | 592 | 647 | 665 | 449 |
| 75° | 237 | 300 | 387 | 448 | 468 | 249 |
| 85° | 52 | 124 | 211 | 269 | 289 | 60 |
| 90° | 0 | 69 | 147 | 202 | 222 | 4 |
| 95° | 0 | 66 | 142 | 194 | 214 | 0 |
| 105° | 0 | 55 | 133 | 182 | 199 | 2 |
| 115° | 3 | 49 | 113 | 162 | 182 | 3 |
| 125° | 3 | 40 | 95 | 139 | 156 | 3 |
| 135° | 3 | 32 | 78 | 113 | 127 | 2 |
| 145° | 3 | 23 | 55 | 87 | 95 | 2 |
| 155° | 3 | 14 | 35 | 55 | 64 | 1 |
| 165° | 3 | 9 | 17 | 26 | 32 | 1 |
| 175° | 3 | 3 | 6 | 6 | 3 | 0 |
| 180° | 3 | 3 | 3 | 3 | 3 | |



TEST NUMBER: P567851

CATALOG NUMBER: 8SNX-52SL-LW-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1401.4 | 1401.4 | 1401.4 | 1401.4 | 1401.4 |
| 2.5° | 1410.1 | 1407.2 | 1392.8 | 1404.3 | 1398.5 |
| 5° | 1407.2 | 1404.3 | 1389.9 | 1401.4 | 1398.5 |
| 7.5° | 1395.6 | 1395.6 | 1387.0 | 1398.5 | 1395.6 |
| 10° | 1384.1 | 1384.1 | 1375.4 | 1389.9 | 1387.0 |
| 12.5° | 1366.7 | 1369.6 | 1363.9 | 1381.2 | 1378.3 |
| 15° | 1346.5 | 1352.3 | 1349.4 | 1366.7 | 1366.7 |
| 17.5° | 1323.4 | 1329.2 | 1329.2 | 1349.4 | 1349.4 |
| 20° | 1294.5 | 1303.2 | 1309.0 | 1332.1 | 1332.1 |
| 22.5° | 1265.6 | 1277.2 | 1285.8 | 1306.1 | 1314.7 |
| 25° | 1230.9 | 1245.4 | 1259.8 | 1285.8 | 1285.8 |
| 27.5° | 1196.3 | 1213.6 | 1230.9 | 1256.9 | 1259.8 |
| 30° | 1155.8 | 1176.0 | 1199.2 | 1225.2 | 1230.9 |
| 32.5° | 1115.4 | 1141.4 | 1164.5 | 1196.3 | 1204.9 |
| 35° | 1072.0 | 1098.0 | 1129.8 | 1161.6 | 1170.3 |
| 37.5° | 1022.9 | 1054.7 | 1095.1 | 1129.8 | 1138.5 |
| 40° | 979.6 | 1014.2 | 1054.7 | 1095.1 | 1103.8 |
| 42.5° | 930.4 | 968.0 | 1017.1 | 1054.7 | 1069.1 |
| 45° | 881.3 | 921.8 | 973.8 | 1017.1 | 1028.7 |
| 47.5° | 829.3 | 875.5 | 933.3 | 973.8 | 988.2 |
| 50° | 777.3 | 826.4 | 887.1 | 933.3 | 944.9 |
| 52.5° | 725.3 | 777.3 | 840.9 | 887.1 | 901.5 |
| 55° | 670.4 | 725.3 | 791.7 | 840.9 | 858.2 |
| 57.5° | 618.4 | 673.3 | 742.6 | 794.6 | 812.0 |
| 60° | 560.6 | 624.1 | 693.5 | 745.5 | 765.7 |
| 62.5° | 511.4 | 569.2 | 644.4 | 696.4 | 713.7 |
| 65° | 453.7 | 514.3 | 592.4 | 647.3 | 664.6 |
| 67.5° | 398.8 | 462.3 | 540.3 | 598.1 | 615.5 |
| 70° | 343.9 | 407.4 | 491.2 | 546.1 | 566.3 |
| 72.5° | 289.0 | 355.4 | 436.3 | 497.0 | 517.2 |
| 75° | 236.9 | 300.5 | 387.2 | 447.9 | 468.1 |
| 77.5° | 182.0 | 251.4 | 338.1 | 398.8 | 421.9 |
| 80° | 132.9 | 205.2 | 291.8 | 352.5 | 375.6 |
| 82.5° | 89.6 | 161.8 | 248.5 | 309.2 | 332.3 |
| 85° | 52.0 | 124.2 | 210.9 | 268.7 | 289.0 |
| 87.5° | 26.0 | 95.4 | 176.3 | 234.1 | 254.3 |
| 90° | 0.0 | 69.3 | 147.4 | 202.3 | 222.5 |
| 92.5° | 0.0 | 66.5 | 144.5 | 196.5 | 216.7 |
| 95° | 0.0 | 66.5 | 141.6 | 193.6 | 213.8 |
| 97.5° | 0.0 | 63.6 | 138.7 | 193.6 | 210.9 |
| 100° | 0.0 | 60.7 | 138.7 | 190.7 | 208.0 |
| 102.5° | 0.0 | 57.8 | 135.8 | 187.8 | 205.2 |
| 105° | 0.0 | 54.9 | 132.9 | 182.0 | 199.4 |
| 107.5° | 2.9 | 54.9 | 127.1 | 179.2 | 196.5 |
| 110° | 2.9 | 52.0 | 121.4 | 176.3 | 193.6 |



TEST NUMBER: P567851

CATALOG NUMBER: 8SNX-52SL-LW-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.9 | 49.1 | 115.6 | 170.5 | 187.8 |
| 115° | 2.9 | 49.1 | 112.7 | 161.8 | 182.0 |
| 117.5° | 2.9 | 46.2 | 106.9 | 156.0 | 176.3 |
| 120° | 2.9 | 46.2 | 104.0 | 150.3 | 167.6 |
| 122.5° | 2.9 | 43.3 | 98.2 | 144.5 | 161.8 |
| 125° | 2.9 | 40.5 | 95.4 | 138.7 | 156.0 |
| 127.5° | 2.9 | 37.6 | 92.5 | 132.9 | 150.3 |
| 130° | 2.9 | 34.7 | 86.7 | 127.1 | 141.6 |
| 132.5° | 2.9 | 34.7 | 83.8 | 118.5 | 135.8 |
| 135° | 2.9 | 31.8 | 78.0 | 112.7 | 127.1 |
| 137.5° | 2.9 | 28.9 | 72.2 | 106.9 | 121.4 |
| 140° | 2.9 | 26.0 | 66.5 | 101.1 | 112.7 |
| 142.5° | 2.9 | 26.0 | 60.7 | 92.5 | 104.0 |
| 145° | 2.9 | 23.1 | 54.9 | 86.7 | 95.4 |
| 147.5° | 2.9 | 20.2 | 49.1 | 78.0 | 86.7 |
| 150° | 2.9 | 20.2 | 43.3 | 69.3 | 78.0 |
| 152.5° | 2.9 | 17.3 | 37.6 | 63.6 | 72.2 |
| 155° | 2.9 | 14.4 | 34.7 | 54.9 | 63.6 |
| 157.5° | 2.9 | 14.4 | 28.9 | 46.2 | 54.9 |
| 160° | 2.9 | 11.6 | 26.0 | 37.6 | 46.2 |
| 162.5° | 2.9 | 11.6 | 23.1 | 31.8 | 40.5 |
| 165° | 2.9 | 8.7 | 17.3 | 26.0 | 31.8 |
| 167.5° | 2.9 | 8.7 | 14.4 | 20.2 | 26.0 |
| 170° | 2.9 | 5.8 | 11.6 | 14.4 | 20.2 |
| 172.5° | 2.9 | 5.8 | 8.7 | 8.7 | 8.7 |
| 175° | 2.9 | 2.9 | 5.8 | 5.8 | 2.9 |
| 177.5° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 180° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |

(END OF REPORT)