

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: P566502

Luminaire Tested: **4SNX-48SL-SLW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566502
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-48SL-SLW-UNV-L830-CD
Description: 4FT 4800 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

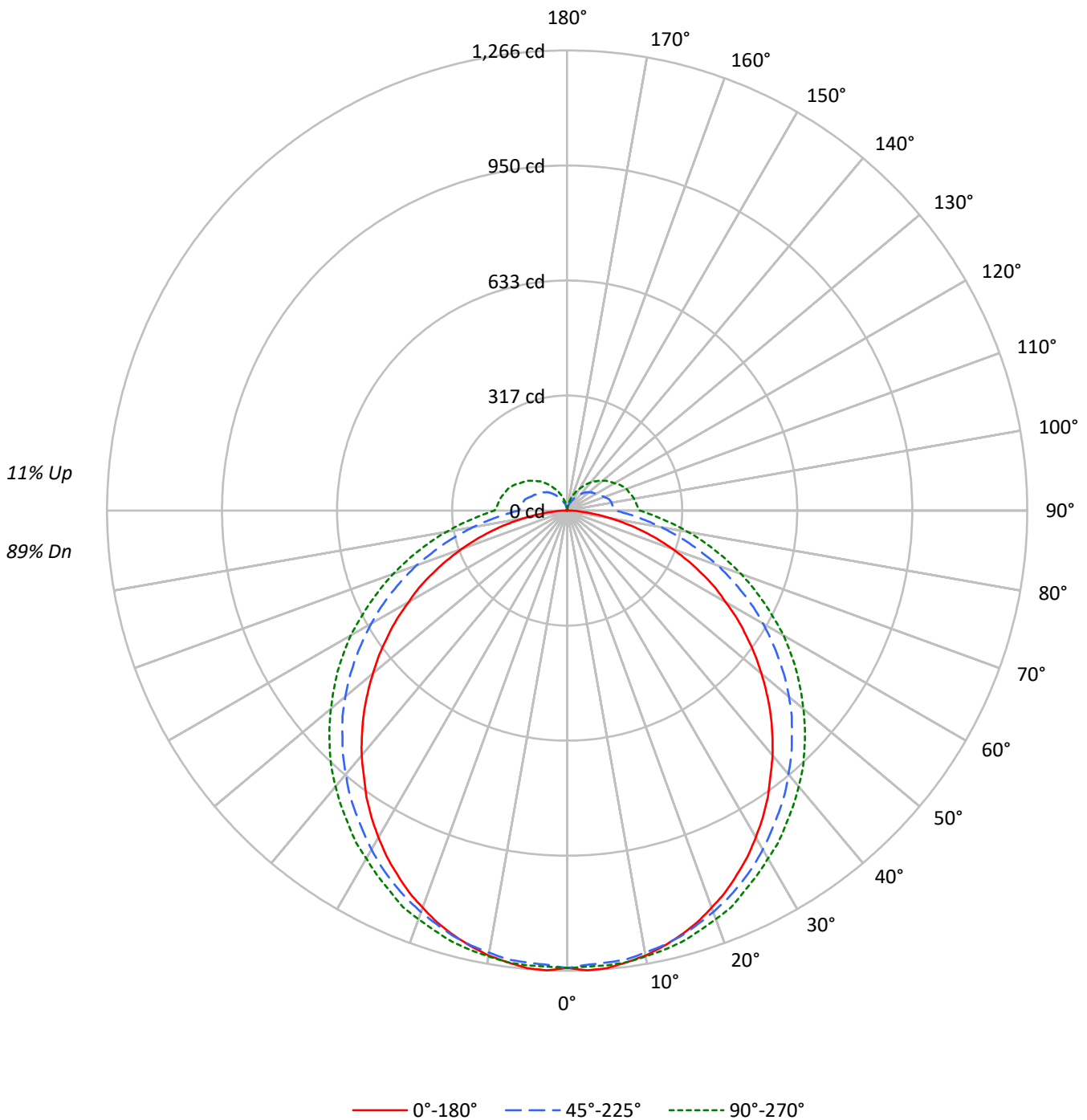
Lumens per Lamp: N/A
Luminaire Lumens: 4480.0 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 32.1
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: P566502

CATALOG NUMBER: 4SNX-48SL-SLW-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566502

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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° | 13545 | 13545 | 13545 |
| 5° | 13628 | 13198 | 13186 |
| 10° | 13535 | 12931 | 12860 |
| 15° | 13399 | 12657 | 12559 |
| 20° | 13215 | 12343 | 12225 |
| 25° | 13003 | 12036 | 11875 |
| 30° | 12747 | 11699 | 11529 |
| 35° | 12468 | 11349 | 11204 |
| 40° | 12148 | 11005 | 10893 |
| 45° | 11802 | 10653 | 10556 |
| 50° | 11406 | 10283 | 10181 |
| 55° | 10972 | 9838 | 9810 |
| 60° | 10461 | 9361 | 9398 |
| 65° | 9934 | 8826 | 8879 |
| 70° | 9194 | 8237 | 8371 |
| 75° | 8214 | 7489 | 7807 |
| 80° | 6622 | 6729 | 7253 |
| 85° | 4662 | 6074 | 6684 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 119.5 | 2.7 |
| 10°-20° | 343.6 | 7.7 |
| 20°-30° | 522.4 | 11.7 |
| 30°-40° | 634.1 | 14.2 |
| 40°-50° | 670.1 | 15.0 |
| 50°-60° | 627.1 | 14.0 |
| 60°-70° | 514.5 | 11.5 |
| 70°-80° | 353.9 | 7.9 |
| 80°-90° | 193.8 | 4.3 |
| 90°-100° | 124.8 | 2.8 |
| 100°-110° | 112.0 | 2.5 |
| 110°-120° | 92.7 | 2.1 |
| 120°-130° | 71.4 | 1.6 |
| 130°-140° | 50.2 | 1.1 |
| 140°-150° | 30.2 | 0.7 |
| 150°-160° | 14.5 | 0.3 |
| 160°-170° | 4.8 | 0.1 |
| 170°-180° | 0.6 | 0.0 |
| 0°-30° | 985.5 | 22.0 |
| 0°-40° | 1619.7 | 36.2 |
| 0°-60° | 2916.8 | 65.1 |
| 0°-90° | 3979.0 | 88.8 |
| 90°-120° | 329.5 | 7.4 |
| 90°-150° | 481.2 | 10.7 |
| 90°-180° | 501.0 | 11.2 |
| 0°-180° | 4480.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1258 | 1258 | 1258 | 1258 | 1258 | |
| 5° | 1264 | 1261 | 1248 | 1258 | 1256 | 120 |
| 15° | 1209 | 1214 | 1212 | 1227 | 1227 | 341 |
| 25° | 1105 | 1118 | 1131 | 1155 | 1155 | 509 |
| 35° | 963 | 986 | 1014 | 1043 | 1051 | 601 |
| 45° | 791 | 828 | 874 | 913 | 924 | 610 |
| 55° | 602 | 651 | 711 | 755 | 771 | 539 |
| 65° | 407 | 462 | 532 | 581 | 597 | 403 |
| 75° | 213 | 270 | 348 | 402 | 420 | 224 |
| 85° | 47 | 112 | 189 | 241 | 260 | 54 |
| 90° | 0 | 62 | 132 | 182 | 200 | 3 |
| 95° | 0 | 60 | 127 | 174 | 192 | 0 |
| 105° | 0 | 49 | 119 | 164 | 179 | 2 |
| 115° | 3 | 44 | 101 | 145 | 164 | 3 |
| 125° | 3 | 36 | 86 | 124 | 140 | 2 |
| 135° | 3 | 28 | 70 | 101 | 114 | 2 |
| 145° | 3 | 21 | 49 | 78 | 86 | 2 |
| 155° | 3 | 13 | 31 | 49 | 57 | 1 |
| 165° | 3 | 8 | 16 | 23 | 28 | 1 |
| 175° | 3 | 3 | 5 | 5 | 3 | 0 |
| 180° | 3 | 3 | 3 | 3 | 3 | |



TEST NUMBER: P566502

CATALOG NUMBER: 4SNX-48SL-SLW-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1258.4 | 1258.4 | 1258.4 | 1258.4 | 1258.4 |
| 2.5° | 1266.2 | 1263.6 | 1250.7 | 1261.0 | 1255.8 |
| 5° | 1263.6 | 1261.0 | 1248.1 | 1258.4 | 1255.8 |
| 7.5° | 1253.3 | 1253.3 | 1245.5 | 1255.8 | 1253.3 |
| 10° | 1242.9 | 1242.9 | 1235.1 | 1248.1 | 1245.5 |
| 12.5° | 1227.3 | 1229.9 | 1224.7 | 1240.3 | 1237.7 |
| 15° | 1209.1 | 1214.3 | 1211.7 | 1227.3 | 1227.3 |
| 17.5° | 1188.4 | 1193.6 | 1193.6 | 1211.7 | 1211.7 |
| 20° | 1162.4 | 1170.2 | 1175.4 | 1196.2 | 1196.2 |
| 22.5° | 1136.5 | 1146.9 | 1154.7 | 1172.8 | 1180.6 |
| 25° | 1105.4 | 1118.3 | 1131.3 | 1154.7 | 1154.7 |
| 27.5° | 1074.2 | 1089.8 | 1105.4 | 1128.7 | 1131.3 |
| 30° | 1037.9 | 1056.1 | 1076.8 | 1100.2 | 1105.4 |
| 32.5° | 1001.6 | 1024.9 | 1045.7 | 1074.2 | 1082.0 |
| 35° | 962.6 | 986.0 | 1014.5 | 1043.1 | 1050.9 |
| 37.5° | 918.5 | 947.1 | 983.4 | 1014.5 | 1022.3 |
| 40° | 879.6 | 910.7 | 947.1 | 983.4 | 991.2 |
| 42.5° | 835.5 | 869.2 | 913.3 | 947.1 | 960.0 |
| 45° | 791.4 | 827.7 | 874.4 | 913.3 | 923.7 |
| 47.5° | 744.7 | 786.2 | 838.1 | 874.4 | 887.4 |
| 50° | 698.0 | 742.1 | 796.6 | 838.1 | 848.5 |
| 52.5° | 651.3 | 698.0 | 755.1 | 796.6 | 809.6 |
| 55° | 602.0 | 651.3 | 711.0 | 755.1 | 770.6 |
| 57.5° | 555.3 | 604.6 | 666.8 | 713.5 | 729.1 |
| 60° | 503.4 | 560.5 | 622.7 | 669.4 | 687.6 |
| 62.5° | 459.3 | 511.2 | 578.6 | 625.3 | 640.9 |
| 65° | 407.4 | 461.9 | 531.9 | 581.2 | 596.8 |
| 67.5° | 358.1 | 415.2 | 485.2 | 537.1 | 552.7 |
| 70° | 308.8 | 365.9 | 441.1 | 490.4 | 508.6 |
| 72.5° | 259.5 | 319.2 | 391.8 | 446.3 | 464.5 |
| 75° | 212.8 | 269.9 | 347.7 | 402.2 | 420.3 |
| 77.5° | 163.5 | 225.7 | 303.6 | 358.1 | 378.8 |
| 80° | 119.4 | 184.2 | 262.1 | 316.6 | 337.3 |
| 82.5° | 80.4 | 145.3 | 223.1 | 277.6 | 298.4 |
| 85° | 46.7 | 111.6 | 189.4 | 241.3 | 259.5 |
| 87.5° | 23.4 | 85.6 | 158.3 | 210.2 | 228.3 |
| 90° | 0.0 | 62.3 | 132.3 | 181.6 | 199.8 |
| 92.5° | 0.0 | 59.7 | 129.7 | 176.4 | 194.6 |
| 95° | 0.0 | 59.7 | 127.1 | 173.8 | 192.0 |
| 97.5° | 0.0 | 57.1 | 124.5 | 173.8 | 189.4 |
| 100° | 0.0 | 54.5 | 124.5 | 171.3 | 186.8 |
| 102.5° | 0.0 | 51.9 | 122.0 | 168.7 | 184.2 |
| 105° | 0.0 | 49.3 | 119.4 | 163.5 | 179.0 |
| 107.5° | 2.6 | 49.3 | 114.2 | 160.9 | 176.4 |
| 110° | 2.6 | 46.7 | 109.0 | 158.3 | 173.8 |



TEST NUMBER: P566502

CATALOG NUMBER: 4SNX-48SL-SLW-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.6 | 44.1 | 103.8 | 153.1 | 168.7 |
| 115° | 2.6 | 44.1 | 101.2 | 145.3 | 163.5 |
| 117.5° | 2.6 | 41.5 | 96.0 | 140.1 | 158.3 |
| 120° | 2.6 | 41.5 | 93.4 | 134.9 | 150.5 |
| 122.5° | 2.6 | 38.9 | 88.2 | 129.7 | 145.3 |
| 125° | 2.6 | 36.3 | 85.6 | 124.5 | 140.1 |
| 127.5° | 2.6 | 33.7 | 83.0 | 119.4 | 134.9 |
| 130° | 2.6 | 31.1 | 77.8 | 114.2 | 127.1 |
| 132.5° | 2.6 | 31.1 | 75.2 | 106.4 | 122.0 |
| 135° | 2.6 | 28.5 | 70.1 | 101.2 | 114.2 |
| 137.5° | 2.6 | 25.9 | 64.9 | 96.0 | 109.0 |
| 140° | 2.6 | 23.4 | 59.7 | 90.8 | 101.2 |
| 142.5° | 2.6 | 23.4 | 54.5 | 83.0 | 93.4 |
| 145° | 2.6 | 20.8 | 49.3 | 77.8 | 85.6 |
| 147.5° | 2.6 | 18.2 | 44.1 | 70.1 | 77.8 |
| 150° | 2.6 | 18.2 | 38.9 | 62.3 | 70.1 |
| 152.5° | 2.6 | 15.6 | 33.7 | 57.1 | 64.9 |
| 155° | 2.6 | 13.0 | 31.1 | 49.3 | 57.1 |
| 157.5° | 2.6 | 13.0 | 25.9 | 41.5 | 49.3 |
| 160° | 2.6 | 10.4 | 23.4 | 33.7 | 41.5 |
| 162.5° | 2.6 | 10.4 | 20.8 | 28.5 | 36.3 |
| 165° | 2.6 | 7.8 | 15.6 | 23.4 | 28.5 |
| 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)