

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: P568006

Luminaire Tested: **8SNX-74SL-SLW-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P568006
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-74SL-SLW-UNV-L930-CD
Description: 8FT 7400 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

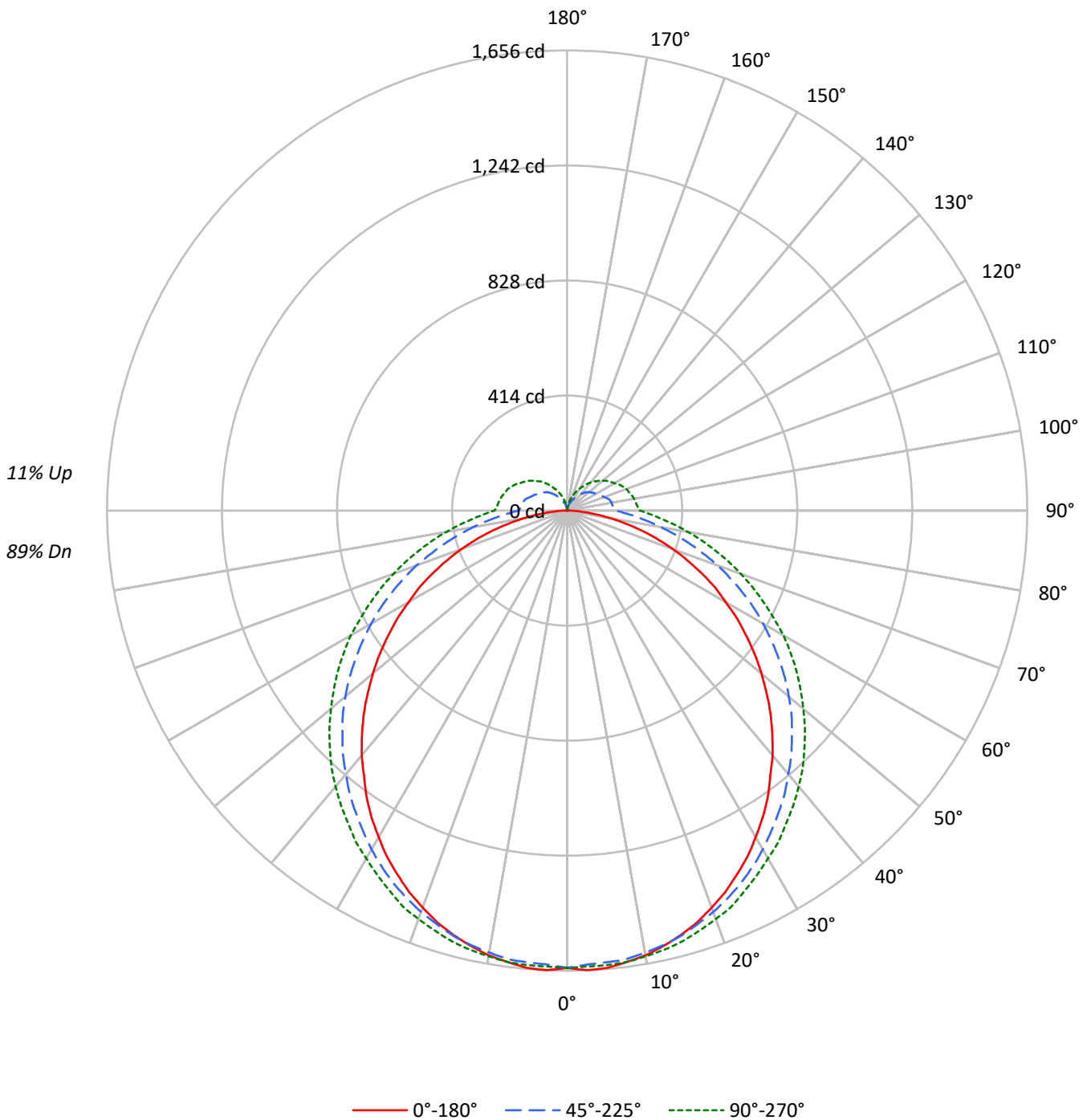
Lumens per Lamp: N/A
Luminaire Lumens: 5858.0 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 48
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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CATALOG NUMBER: 8SNX-74SL-SLW-UNV-L930-CD

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° | 8856 | 8856 | 8856 |
| 5° | 8918 | 8634 | 8621 |
| 10° | 8865 | 8465 | 8408 |
| 15° | 8785 | 8291 | 8211 |
| 20° | 8673 | 8090 | 7992 |
| 25° | 8541 | 7893 | 7764 |
| 30° | 8384 | 7677 | 7537 |
| 35° | 8210 | 7453 | 7325 |
| 40° | 8011 | 7232 | 7122 |
| 45° | 7795 | 7006 | 6902 |
| 50° | 7549 | 6768 | 6656 |
| 55° | 7278 | 6482 | 6414 |
| 60° | 6960 | 6176 | 6144 |
| 65° | 6636 | 5830 | 5805 |
| 70° | 6176 | 5451 | 5472 |
| 75° | 5569 | 4966 | 5104 |
| 80° | 4569 | 4476 | 4742 |
| 85° | 3373 | 4060 | 4370 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 156.3 | 2.7 |
| 10°-20° | 449.2 | 7.7 |
| 20°-30° | 683.1 | 11.7 |
| 30°-40° | 829.2 | 14.2 |
| 40°-50° | 876.2 | 15.0 |
| 50°-60° | 819.9 | 14.0 |
| 60°-70° | 672.8 | 11.5 |
| 70°-80° | 462.7 | 7.9 |
| 80°-90° | 253.4 | 4.3 |
| 90°-100° | 163.2 | 2.8 |
| 100°-110° | 146.4 | 2.5 |
| 110°-120° | 121.2 | 2.1 |
| 120°-130° | 93.3 | 1.6 |
| 130°-140° | 65.6 | 1.1 |
| 140°-150° | 39.5 | 0.7 |
| 150°-160° | 18.9 | 0.3 |
| 160°-170° | 6.2 | 0.1 |
| 170°-180° | 0.7 | 0.0 |
| 0°-30° | 1288.6 | 22.0 |
| 0°-40° | 2117.8 | 36.2 |
| 0°-60° | 3814.0 | 65.1 |
| 0°-90° | 5202.9 | 88.8 |
| 90°-120° | 430.8 | 7.4 |
| 90°-150° | 629.2 | 10.7 |
| 90°-180° | 655.0 | 11.2 |
| 0°-180° | 5858.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1646 | 1646 | 1646 | 1646 | 1646 | |
| 5° | 1652 | 1649 | 1632 | 1646 | 1642 | 157 |
| 15° | 1581 | 1588 | 1584 | 1605 | 1605 | 446 |
| 25° | 1445 | 1462 | 1479 | 1510 | 1510 | 666 |
| 35° | 1259 | 1289 | 1327 | 1364 | 1374 | 786 |
| 45° | 1035 | 1082 | 1143 | 1194 | 1208 | 798 |
| 55° | 787 | 852 | 930 | 987 | 1008 | 704 |
| 65° | 533 | 604 | 696 | 760 | 780 | 528 |
| 75° | 278 | 353 | 455 | 526 | 550 | 293 |
| 85° | 61 | 146 | 248 | 316 | 339 | 71 |
| 90° | 0 | 81 | 173 | 238 | 261 | 4 |
| 95° | 0 | 78 | 166 | 227 | 251 | 0 |
| 105° | 0 | 64 | 156 | 214 | 234 | 2 |
| 115° | 3 | 58 | 132 | 190 | 214 | 3 |
| 125° | 3 | 48 | 112 | 163 | 183 | 3 |
| 135° | 3 | 37 | 92 | 132 | 149 | 3 |
| 145° | 3 | 27 | 64 | 102 | 112 | 2 |
| 155° | 3 | 17 | 41 | 64 | 75 | 2 |
| 165° | 3 | 10 | 20 | 30 | 37 | 1 |
| 175° | 3 | 3 | 7 | 7 | 3 | 0 |
| 180° | 3 | 3 | 3 | 3 | 3 | |



TEST NUMBER: P568006

CATALOG NUMBER: 8SNX-74SL-SLW-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1645.5 | 1645.5 | 1645.5 | 1645.5 | 1645.5 |
| 2.5° | 1655.7 | 1652.3 | 1635.3 | 1648.9 | 1642.1 |
| 5° | 1652.3 | 1648.9 | 1632.0 | 1645.5 | 1642.1 |
| 7.5° | 1638.7 | 1638.7 | 1628.6 | 1642.1 | 1638.7 |
| 10° | 1625.2 | 1625.2 | 1615.0 | 1632.0 | 1628.6 |
| 12.5° | 1604.8 | 1608.2 | 1601.4 | 1621.8 | 1618.4 |
| 15° | 1581.1 | 1587.8 | 1584.5 | 1604.8 | 1604.8 |
| 17.5° | 1553.9 | 1560.7 | 1560.7 | 1584.5 | 1584.5 |
| 20° | 1520.0 | 1530.2 | 1537.0 | 1564.1 | 1564.1 |
| 22.5° | 1486.1 | 1499.6 | 1509.8 | 1533.6 | 1543.7 |
| 25° | 1445.3 | 1462.3 | 1479.3 | 1509.8 | 1509.8 |
| 27.5° | 1404.6 | 1425.0 | 1445.3 | 1475.9 | 1479.3 |
| 30° | 1357.1 | 1380.9 | 1408.0 | 1438.6 | 1445.3 |
| 32.5° | 1309.6 | 1340.2 | 1367.3 | 1404.6 | 1414.8 |
| 35° | 1258.7 | 1289.3 | 1326.6 | 1363.9 | 1374.1 |
| 37.5° | 1201.1 | 1238.4 | 1285.9 | 1326.6 | 1336.8 |
| 40° | 1150.2 | 1190.9 | 1238.4 | 1285.9 | 1296.1 |
| 42.5° | 1092.5 | 1136.6 | 1194.3 | 1238.4 | 1255.3 |
| 45° | 1034.8 | 1082.3 | 1143.4 | 1194.3 | 1207.8 |
| 47.5° | 973.7 | 1028.0 | 1095.9 | 1143.4 | 1160.4 |
| 50° | 912.7 | 970.4 | 1041.6 | 1095.9 | 1109.5 |
| 52.5° | 851.6 | 912.7 | 987.3 | 1041.6 | 1058.6 |
| 55° | 787.1 | 851.6 | 929.6 | 987.3 | 1007.7 |
| 57.5° | 726.1 | 790.5 | 872.0 | 933.0 | 953.4 |
| 60° | 658.2 | 732.9 | 814.3 | 875.4 | 899.1 |
| 62.5° | 600.5 | 668.4 | 756.6 | 817.7 | 838.0 |
| 65° | 532.7 | 603.9 | 695.5 | 760.0 | 780.4 |
| 67.5° | 468.2 | 542.9 | 634.5 | 702.3 | 722.7 |
| 70° | 403.7 | 478.4 | 576.8 | 641.2 | 665.0 |
| 72.5° | 339.3 | 417.3 | 512.3 | 583.6 | 607.3 |
| 75° | 278.2 | 352.9 | 454.6 | 525.9 | 549.6 |
| 77.5° | 213.7 | 295.2 | 397.0 | 468.2 | 495.4 |
| 80° | 156.1 | 240.9 | 342.7 | 413.9 | 441.1 |
| 82.5° | 105.2 | 190.0 | 291.8 | 363.0 | 390.2 |
| 85° | 61.1 | 145.9 | 247.7 | 315.5 | 339.3 |
| 87.5° | 30.5 | 112.0 | 207.0 | 274.8 | 298.6 |
| 90° | 0.0 | 81.4 | 173.0 | 237.5 | 261.2 |
| 92.5° | 0.0 | 78.0 | 169.6 | 230.7 | 254.5 |
| 95° | 0.0 | 78.0 | 166.2 | 227.3 | 251.1 |
| 97.5° | 0.0 | 74.6 | 162.9 | 227.3 | 247.7 |
| 100° | 0.0 | 71.2 | 162.9 | 223.9 | 244.3 |
| 102.5° | 0.0 | 67.9 | 159.5 | 220.5 | 240.9 |
| 105° | 0.0 | 64.5 | 156.1 | 213.7 | 234.1 |
| 107.5° | 3.4 | 64.5 | 149.3 | 210.4 | 230.7 |
| 110° | 3.4 | 61.1 | 142.5 | 207.0 | 227.3 |



TEST NUMBER: P568006

CATALOG NUMBER: 8SNX-74SL-SLW-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 3.4 | 57.7 | 135.7 | 200.2 | 220.5 |
| 115° | 3.4 | 57.7 | 132.3 | 190.0 | 213.7 |
| 117.5° | 3.4 | 54.3 | 125.5 | 183.2 | 207.0 |
| 120° | 3.4 | 54.3 | 122.1 | 176.4 | 196.8 |
| 122.5° | 3.4 | 50.9 | 115.4 | 169.6 | 190.0 |
| 125° | 3.4 | 47.5 | 112.0 | 162.9 | 183.2 |
| 127.5° | 3.4 | 44.1 | 108.6 | 156.1 | 176.4 |
| 130° | 3.4 | 40.7 | 101.8 | 149.3 | 166.2 |
| 132.5° | 3.4 | 40.7 | 98.4 | 139.1 | 159.5 |
| 135° | 3.4 | 37.3 | 91.6 | 132.3 | 149.3 |
| 137.5° | 3.4 | 33.9 | 84.8 | 125.5 | 142.5 |
| 140° | 3.4 | 30.5 | 78.0 | 118.7 | 132.3 |
| 142.5° | 3.4 | 30.5 | 71.2 | 108.6 | 122.1 |
| 145° | 3.4 | 27.1 | 64.5 | 101.8 | 112.0 |
| 147.5° | 3.4 | 23.7 | 57.7 | 91.6 | 101.8 |
| 150° | 3.4 | 23.7 | 50.9 | 81.4 | 91.6 |
| 152.5° | 3.4 | 20.4 | 44.1 | 74.6 | 84.8 |
| 155° | 3.4 | 17.0 | 40.7 | 64.5 | 74.6 |
| 157.5° | 3.4 | 17.0 | 33.9 | 54.3 | 64.5 |
| 160° | 3.4 | 13.6 | 30.5 | 44.1 | 54.3 |
| 162.5° | 3.4 | 13.6 | 27.1 | 37.3 | 47.5 |
| 165° | 3.4 | 10.2 | 20.4 | 30.5 | 37.3 |
| 167.5° | 3.4 | 10.2 | 17.0 | 23.7 | 30.5 |
| 170° | 3.4 | 6.8 | 13.6 | 17.0 | 23.7 |
| 172.5° | 3.4 | 6.8 | 10.2 | 10.2 | 10.2 |
| 175° | 3.4 | 3.4 | 6.8 | 6.8 | 3.4 |
| 177.5° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 180° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |

(END OF REPORT)