

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: P567999

Luminaire Tested: **8SNX-74SL-LW-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567999
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-LW-UNV-L935-CD
Description: 8FT 7400 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

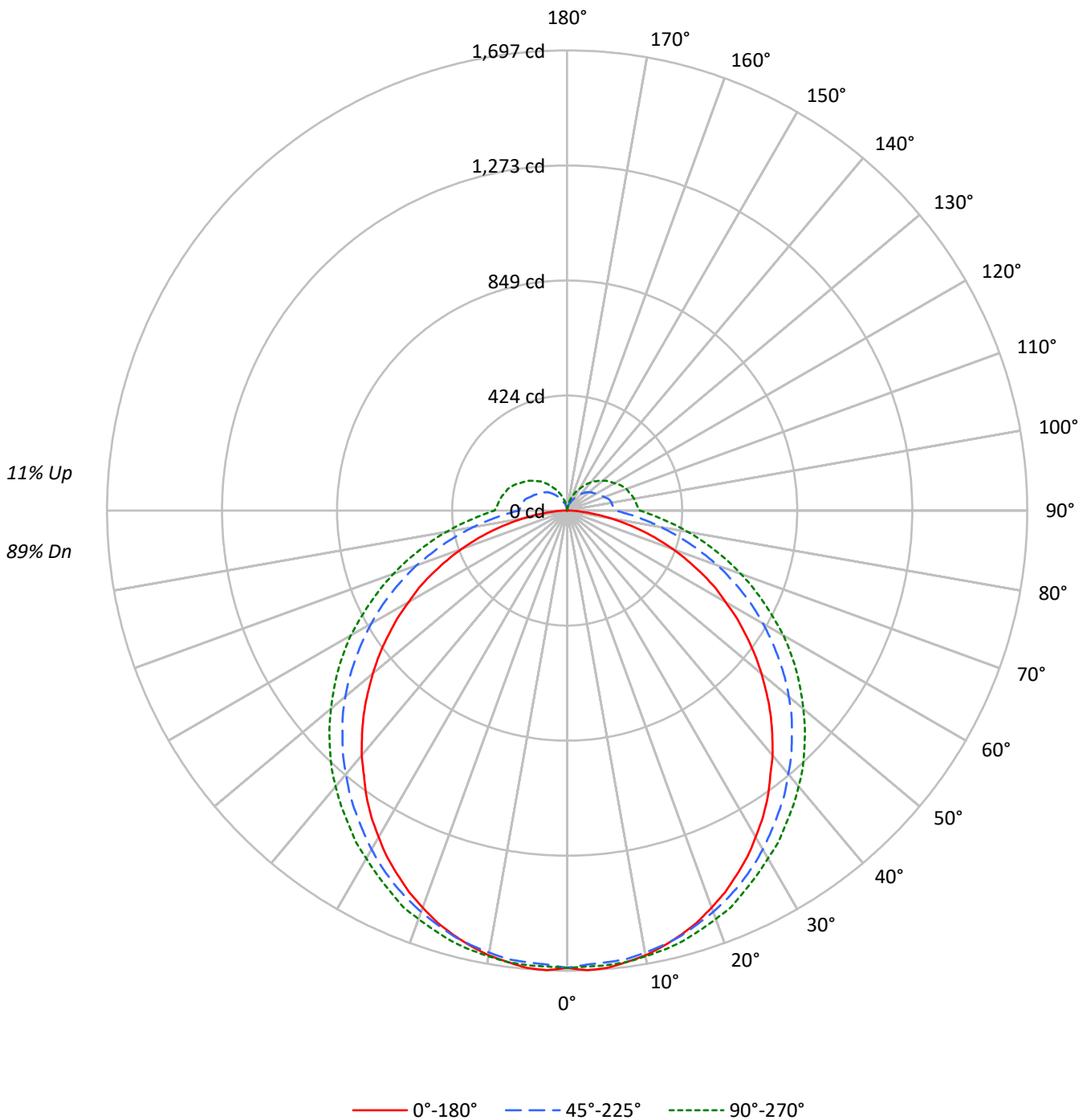
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6003.0 lumens
Efficiency: N/A
Efficacy: 125.1 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): 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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Luminous Intensity Polar Plot





TEST NUMBER: P567999

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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° | 9076 | 9076 | 9076 |
| 5° | 9131 | 8666 | 8590 |
| 10° | 9068 | 8330 | 8161 |
| 15° | 8977 | 8004 | 7774 |
| 20° | 8854 | 7664 | 7387 |
| 25° | 8711 | 7338 | 7009 |
| 30° | 8540 | 7002 | 6646 |
| 35° | 8353 | 6663 | 6307 |
| 40° | 8138 | 6332 | 5984 |
| 45° | 7906 | 6001 | 5652 |
| 50° | 7641 | 5659 | 5305 |
| 55° | 7350 | 5276 | 4963 |
| 60° | 7007 | 4876 | 4603 |
| 65° | 6655 | 4444 | 4191 |
| 70° | 6157 | 3982 | 3787 |
| 75° | 5501 | 3442 | 3358 |
| 80° | 4432 | 2897 | 2930 |
| 85° | 3122 | 2390 | 2491 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 160.2 | 2.7 |
| 10°-20° | 460.4 | 7.7 |
| 20°-30° | 700.0 | 11.7 |
| 30°-40° | 849.7 | 14.2 |
| 40°-50° | 897.9 | 15.0 |
| 50°-60° | 840.2 | 14.0 |
| 60°-70° | 689.4 | 11.5 |
| 70°-80° | 474.2 | 7.9 |
| 80°-90° | 259.7 | 4.3 |
| 90°-100° | 167.2 | 2.8 |
| 100°-110° | 150.1 | 2.5 |
| 110°-120° | 124.2 | 2.1 |
| 120°-130° | 95.6 | 1.6 |
| 130°-140° | 67.2 | 1.1 |
| 140°-150° | 40.5 | 0.7 |
| 150°-160° | 19.4 | 0.3 |
| 160°-170° | 6.4 | 0.1 |
| 170°-180° | 0.8 | 0.0 |
| 0°-30° | 1320.5 | 22.0 |
| 0°-40° | 2170.3 | 36.2 |
| 0°-60° | 3908.4 | 65.1 |
| 0°-90° | 5331.7 | 88.8 |
| 90°-120° | 441.5 | 7.4 |
| 90°-150° | 644.8 | 10.7 |
| 90°-180° | 671.0 | 11.2 |
| 0°-180° | 6003.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1686 | 1686 | 1686 | 1686 | 1686 | |
| 5° | 1693 | 1690 | 1672 | 1686 | 1683 | 161 |
| 15° | 1620 | 1627 | 1624 | 1644 | 1644 | 457 |
| 25° | 1481 | 1498 | 1516 | 1547 | 1547 | 682 |
| 35° | 1290 | 1321 | 1359 | 1398 | 1408 | 806 |
| 45° | 1060 | 1109 | 1172 | 1224 | 1238 | 817 |
| 55° | 807 | 873 | 953 | 1012 | 1033 | 722 |
| 65° | 546 | 619 | 713 | 779 | 800 | 541 |
| 75° | 285 | 362 | 466 | 539 | 563 | 300 |
| 85° | 63 | 150 | 254 | 323 | 348 | 72 |
| 90° | 0 | 83 | 177 | 243 | 268 | 4 |
| 95° | 0 | 80 | 170 | 233 | 257 | 0 |
| 105° | 0 | 66 | 160 | 219 | 240 | 2 |
| 115° | 4 | 59 | 136 | 195 | 219 | 3 |
| 125° | 4 | 49 | 115 | 167 | 188 | 3 |
| 135° | 4 | 38 | 94 | 136 | 153 | 3 |
| 145° | 4 | 28 | 66 | 104 | 115 | 2 |
| 155° | 4 | 17 | 42 | 66 | 76 | 2 |
| 165° | 4 | 10 | 21 | 31 | 38 | 1 |
| 175° | 4 | 4 | 7 | 7 | 4 | 0 |
| 180° | 4 | 4 | 4 | 4 | 4 | |



TEST NUMBER: P567999

CATALOG NUMBER: 8SNX-74SL-LW-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1686.3 | 1686.3 | 1686.3 | 1686.3 | 1686.3 |
| 2.5° | 1696.7 | 1693.2 | 1675.8 | 1689.7 | 1682.8 |
| 5° | 1693.2 | 1689.7 | 1672.3 | 1686.3 | 1682.8 |
| 7.5° | 1679.3 | 1679.3 | 1668.9 | 1682.8 | 1679.3 |
| 10° | 1665.4 | 1665.4 | 1655.0 | 1672.3 | 1668.9 |
| 12.5° | 1644.5 | 1648.0 | 1641.1 | 1661.9 | 1658.4 |
| 15° | 1620.2 | 1627.2 | 1623.7 | 1644.5 | 1644.5 |
| 17.5° | 1592.4 | 1599.3 | 1599.3 | 1623.7 | 1623.7 |
| 20° | 1557.6 | 1568.0 | 1575.0 | 1602.8 | 1602.8 |
| 22.5° | 1522.8 | 1536.8 | 1547.2 | 1571.5 | 1582.0 |
| 25° | 1481.1 | 1498.5 | 1515.9 | 1547.2 | 1547.2 |
| 27.5° | 1439.4 | 1460.3 | 1481.1 | 1512.4 | 1515.9 |
| 30° | 1390.7 | 1415.1 | 1442.9 | 1474.2 | 1481.1 |
| 32.5° | 1342.1 | 1373.3 | 1401.2 | 1439.4 | 1449.8 |
| 35° | 1289.9 | 1321.2 | 1359.4 | 1397.7 | 1408.1 |
| 37.5° | 1230.8 | 1269.0 | 1317.7 | 1359.4 | 1369.9 |
| 40° | 1178.6 | 1220.4 | 1269.0 | 1317.7 | 1328.1 |
| 42.5° | 1119.5 | 1164.7 | 1223.8 | 1269.0 | 1286.4 |
| 45° | 1060.4 | 1109.1 | 1171.7 | 1223.8 | 1237.7 |
| 47.5° | 997.8 | 1053.5 | 1123.0 | 1171.7 | 1189.1 |
| 50° | 935.3 | 994.4 | 1067.4 | 1123.0 | 1136.9 |
| 52.5° | 872.7 | 935.3 | 1011.8 | 1067.4 | 1084.8 |
| 55° | 806.6 | 872.7 | 952.6 | 1011.8 | 1032.6 |
| 57.5° | 744.0 | 810.1 | 893.5 | 956.1 | 977.0 |
| 60° | 674.5 | 751.0 | 834.4 | 897.0 | 921.4 |
| 62.5° | 615.4 | 684.9 | 775.3 | 837.9 | 858.8 |
| 65° | 545.9 | 618.9 | 712.7 | 778.8 | 799.7 |
| 67.5° | 479.8 | 556.3 | 650.2 | 719.7 | 740.6 |
| 70° | 413.7 | 490.2 | 591.1 | 657.1 | 681.5 |
| 72.5° | 347.7 | 427.6 | 525.0 | 598.0 | 622.4 |
| 75° | 285.1 | 361.6 | 465.9 | 538.9 | 563.2 |
| 77.5° | 219.0 | 302.5 | 406.8 | 479.8 | 507.6 |
| 80° | 159.9 | 246.9 | 351.2 | 424.2 | 452.0 |
| 82.5° | 107.8 | 194.7 | 299.0 | 372.0 | 399.8 |
| 85° | 62.6 | 149.5 | 253.8 | 323.3 | 347.7 |
| 87.5° | 31.3 | 114.7 | 212.1 | 281.6 | 306.0 |
| 90° | 0.0 | 83.4 | 177.3 | 243.4 | 267.7 |
| 92.5° | 0.0 | 80.0 | 173.8 | 236.4 | 260.8 |
| 95° | 0.0 | 80.0 | 170.4 | 232.9 | 257.3 |
| 97.5° | 0.0 | 76.5 | 166.9 | 232.9 | 253.8 |
| 100° | 0.0 | 73.0 | 166.9 | 229.5 | 250.3 |
| 102.5° | 0.0 | 69.5 | 163.4 | 226.0 | 246.9 |
| 105° | 0.0 | 66.1 | 159.9 | 219.0 | 239.9 |
| 107.5° | 3.5 | 66.1 | 153.0 | 215.6 | 236.4 |
| 110° | 3.5 | 62.6 | 146.0 | 212.1 | 232.9 |



TEST NUMBER: P567999

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 3.5 | 59.1 | 139.1 | 205.1 | 226.0 |
| 115° | 3.5 | 59.1 | 135.6 | 194.7 | 219.0 |
| 117.5° | 3.5 | 55.6 | 128.6 | 187.7 | 212.1 |
| 120° | 3.5 | 55.6 | 125.2 | 180.8 | 201.7 |
| 122.5° | 3.5 | 52.2 | 118.2 | 173.8 | 194.7 |
| 125° | 3.5 | 48.7 | 114.7 | 166.9 | 187.7 |
| 127.5° | 3.5 | 45.2 | 111.3 | 159.9 | 180.8 |
| 130° | 3.5 | 41.7 | 104.3 | 153.0 | 170.4 |
| 132.5° | 3.5 | 41.7 | 100.8 | 142.5 | 163.4 |
| 135° | 3.5 | 38.2 | 93.9 | 135.6 | 153.0 |
| 137.5° | 3.5 | 34.8 | 86.9 | 128.6 | 146.0 |
| 140° | 3.5 | 31.3 | 80.0 | 121.7 | 135.6 |
| 142.5° | 3.5 | 31.3 | 73.0 | 111.3 | 125.2 |
| 145° | 3.5 | 27.8 | 66.1 | 104.3 | 114.7 |
| 147.5° | 3.5 | 24.3 | 59.1 | 93.9 | 104.3 |
| 150° | 3.5 | 24.3 | 52.2 | 83.4 | 93.9 |
| 152.5° | 3.5 | 20.9 | 45.2 | 76.5 | 86.9 |
| 155° | 3.5 | 17.4 | 41.7 | 66.1 | 76.5 |
| 157.5° | 3.5 | 17.4 | 34.8 | 55.6 | 66.1 |
| 160° | 3.5 | 13.9 | 31.3 | 45.2 | 55.6 |
| 162.5° | 3.5 | 13.9 | 27.8 | 38.2 | 48.7 |
| 165° | 3.5 | 10.4 | 20.9 | 31.3 | 38.2 |
| 167.5° | 3.5 | 10.4 | 17.4 | 24.3 | 31.3 |
| 170° | 3.5 | 7.0 | 13.9 | 17.4 | 24.3 |
| 172.5° | 3.5 | 7.0 | 10.4 | 10.4 | 10.4 |
| 175° | 3.5 | 3.5 | 7.0 | 7.0 | 3.5 |
| 177.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 180° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |

(END OF REPORT)