

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: P567947

Luminaire Tested: **8SNX-66SL-LW-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567947
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-66SL-LW-UNV-L835-CD
Description: 8FT 6600 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

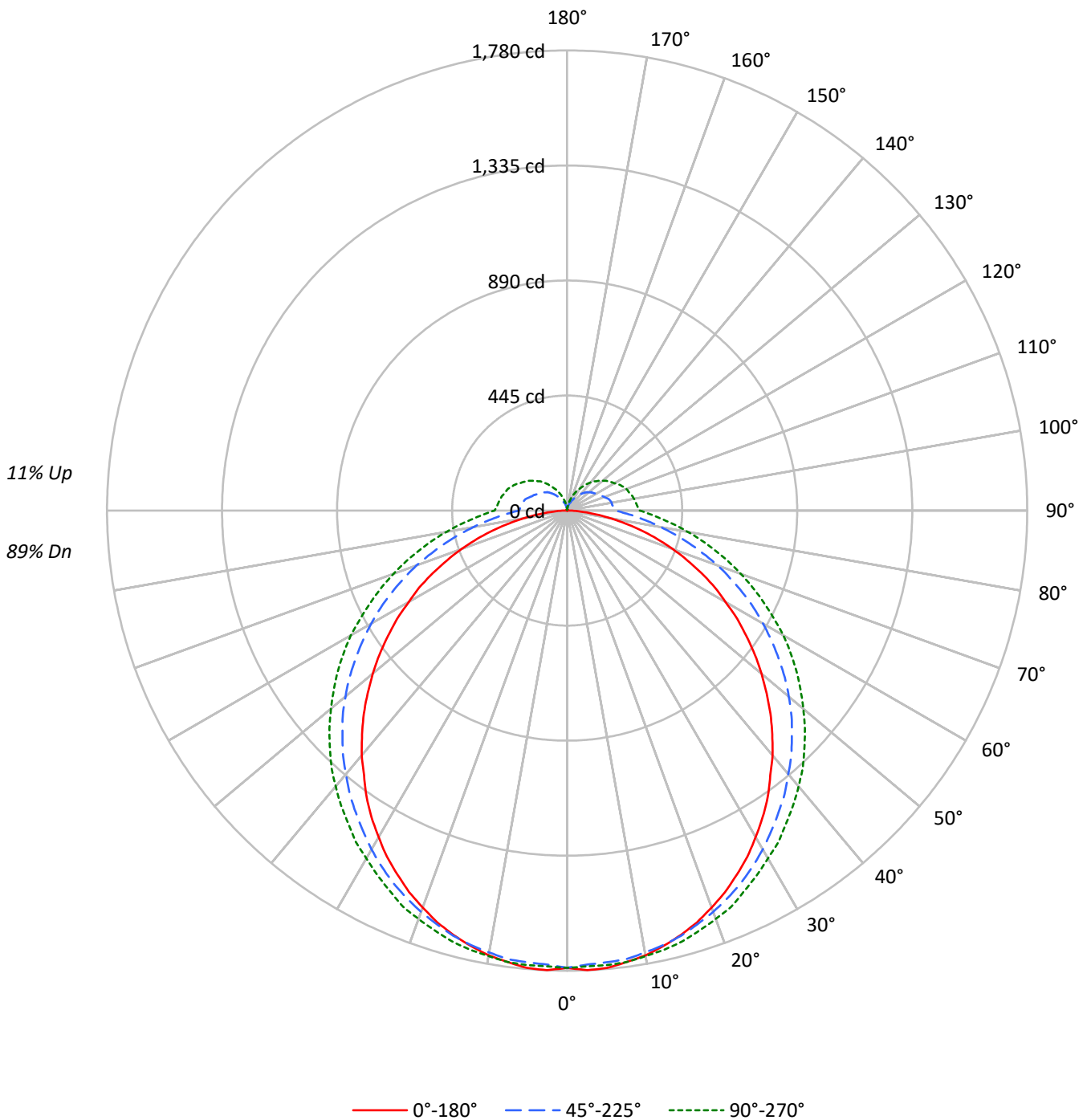
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6295.9 lumens
Efficiency: N/A
Efficacy: 149.2 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): 42.2
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-66SL-LW-UNV-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567947

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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° | 9519 | 9519 | 9519 |
| 5° | 9577 | 9089 | 9009 |
| 10° | 9511 | 8737 | 8559 |
| 15° | 9416 | 8395 | 8154 |
| 20° | 9286 | 8039 | 7748 |
| 25° | 9136 | 7697 | 7351 |
| 30° | 8957 | 7343 | 6971 |
| 35° | 8761 | 6989 | 6615 |
| 40° | 8536 | 6642 | 6276 |
| 45° | 8292 | 6294 | 5928 |
| 50° | 8014 | 5935 | 5563 |
| 55° | 7709 | 5533 | 5206 |
| 60° | 7349 | 5114 | 4827 |
| 65° | 6979 | 4660 | 4396 |
| 70° | 6458 | 4176 | 3972 |
| 75° | 5769 | 3610 | 3521 |
| 80° | 4648 | 3038 | 3073 |
| 85° | 3272 | 2507 | 2613 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 168.0 | 2.7 |
| 10°-20° | 482.8 | 7.7 |
| 20°-30° | 734.2 | 11.7 |
| 30°-40° | 891.2 | 14.2 |
| 40°-50° | 941.7 | 15.0 |
| 50°-60° | 881.2 | 14.0 |
| 60°-70° | 723.1 | 11.5 |
| 70°-80° | 497.3 | 7.9 |
| 80°-90° | 272.4 | 4.3 |
| 90°-100° | 175.4 | 2.8 |
| 100°-110° | 157.4 | 2.5 |
| 110°-120° | 130.2 | 2.1 |
| 120°-130° | 100.3 | 1.6 |
| 130°-140° | 70.5 | 1.1 |
| 140°-150° | 42.5 | 0.7 |
| 150°-160° | 20.3 | 0.3 |
| 160°-170° | 6.7 | 0.1 |
| 170°-180° | 0.8 | 0.0 |
| 0°-30° | 1385.0 | 22.0 |
| 0°-40° | 2276.2 | 36.2 |
| 0°-60° | 4099.2 | 65.1 |
| 0°-90° | 5591.9 | 88.8 |
| 90°-120° | 463.0 | 7.4 |
| 90°-150° | 676.2 | 10.7 |
| 90°-180° | 704.0 | 11.2 |
| 0°-180° | 6295.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1769 | 1769 | 1769 | 1769 | 1769 | |
| 5° | 1776 | 1772 | 1754 | 1769 | 1765 | 168 |
| 15° | 1699 | 1707 | 1703 | 1725 | 1725 | 479 |
| 25° | 1553 | 1572 | 1590 | 1623 | 1623 | 716 |
| 35° | 1353 | 1386 | 1426 | 1466 | 1477 | 845 |
| 45° | 1112 | 1163 | 1229 | 1284 | 1298 | 857 |
| 55° | 846 | 915 | 999 | 1061 | 1083 | 757 |
| 65° | 572 | 649 | 748 | 817 | 839 | 567 |
| 75° | 299 | 379 | 489 | 565 | 591 | 315 |
| 85° | 66 | 157 | 266 | 339 | 365 | 76 |
| 90° | 0 | 88 | 186 | 255 | 281 | 4 |
| 95° | 0 | 84 | 179 | 244 | 270 | 0 |
| 105° | 0 | 69 | 168 | 230 | 252 | 2 |
| 115° | 4 | 62 | 142 | 204 | 230 | 4 |
| 125° | 4 | 51 | 120 | 175 | 197 | 3 |
| 135° | 4 | 40 | 98 | 142 | 160 | 3 |
| 145° | 4 | 29 | 69 | 109 | 120 | 2 |
| 155° | 4 | 18 | 44 | 69 | 80 | 2 |
| 165° | 4 | 11 | 22 | 33 | 40 | 1 |
| 175° | 4 | 4 | 7 | 7 | 4 | 0 |
| 180° | 4 | 4 | 4 | 4 | 4 | |



TEST NUMBER: P567947

CATALOG NUMBER: 8SNX-66SL-LW-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1768.6 | 1768.6 | 1768.6 | 1768.6 | 1768.6 |
| 2.5° | 1779.5 | 1775.9 | 1757.6 | 1772.2 | 1764.9 |
| 5° | 1775.9 | 1772.2 | 1754.0 | 1768.6 | 1764.9 |
| 7.5° | 1761.3 | 1761.3 | 1750.3 | 1764.9 | 1761.3 |
| 10° | 1746.7 | 1746.7 | 1735.7 | 1754.0 | 1750.3 |
| 12.5° | 1724.8 | 1728.4 | 1721.2 | 1743.0 | 1739.4 |
| 15° | 1699.3 | 1706.6 | 1702.9 | 1724.8 | 1724.8 |
| 17.5° | 1670.1 | 1677.4 | 1677.4 | 1702.9 | 1702.9 |
| 20° | 1633.6 | 1644.6 | 1651.9 | 1681.0 | 1681.0 |
| 22.5° | 1597.2 | 1611.8 | 1622.7 | 1648.2 | 1659.2 |
| 25° | 1553.4 | 1571.6 | 1589.9 | 1622.7 | 1622.7 |
| 27.5° | 1509.7 | 1531.5 | 1553.4 | 1586.2 | 1589.9 |
| 30° | 1458.6 | 1484.1 | 1513.3 | 1546.1 | 1553.4 |
| 32.5° | 1407.6 | 1440.4 | 1469.5 | 1509.7 | 1520.6 |
| 35° | 1352.9 | 1385.7 | 1425.8 | 1465.9 | 1476.8 |
| 37.5° | 1290.9 | 1331.0 | 1382.0 | 1425.8 | 1436.7 |
| 40° | 1236.2 | 1279.9 | 1331.0 | 1382.0 | 1393.0 |
| 42.5° | 1174.2 | 1221.6 | 1283.6 | 1331.0 | 1349.2 |
| 45° | 1112.2 | 1163.2 | 1228.9 | 1283.6 | 1298.2 |
| 47.5° | 1046.6 | 1104.9 | 1177.8 | 1228.9 | 1247.1 |
| 50° | 980.9 | 1042.9 | 1119.5 | 1177.8 | 1192.4 |
| 52.5° | 915.3 | 980.9 | 1061.1 | 1119.5 | 1137.7 |
| 55° | 846.0 | 915.3 | 999.1 | 1061.1 | 1083.0 |
| 57.5° | 780.4 | 849.6 | 937.2 | 1002.8 | 1024.7 |
| 60° | 707.4 | 787.6 | 875.2 | 940.8 | 966.3 |
| 62.5° | 645.4 | 718.4 | 813.2 | 878.8 | 900.7 |
| 65° | 572.5 | 649.1 | 747.5 | 816.8 | 838.7 |
| 67.5° | 503.2 | 583.4 | 681.9 | 754.8 | 776.7 |
| 70° | 433.9 | 514.2 | 619.9 | 689.2 | 714.7 |
| 72.5° | 364.7 | 448.5 | 550.6 | 627.2 | 652.7 |
| 75° | 299.0 | 379.2 | 488.6 | 565.2 | 590.7 |
| 77.5° | 229.7 | 317.2 | 426.6 | 503.2 | 532.4 |
| 80° | 167.7 | 258.9 | 368.3 | 444.9 | 474.0 |
| 82.5° | 113.0 | 204.2 | 313.6 | 390.2 | 419.3 |
| 85° | 65.6 | 156.8 | 266.2 | 339.1 | 364.7 |
| 87.5° | 32.8 | 120.3 | 222.4 | 295.4 | 320.9 |
| 90° | 0.0 | 87.5 | 186.0 | 255.3 | 280.8 |
| 92.5° | 0.0 | 83.9 | 182.3 | 248.0 | 273.5 |
| 95° | 0.0 | 83.9 | 178.7 | 244.3 | 269.8 |
| 97.5° | 0.0 | 80.2 | 175.0 | 244.3 | 266.2 |
| 100° | 0.0 | 76.6 | 175.0 | 240.7 | 262.5 |
| 102.5° | 0.0 | 72.9 | 171.4 | 237.0 | 258.9 |
| 105° | 0.0 | 69.3 | 167.7 | 229.7 | 251.6 |
| 107.5° | 3.6 | 69.3 | 160.4 | 226.1 | 248.0 |
| 110° | 3.6 | 65.6 | 153.2 | 222.4 | 244.3 |



TEST NUMBER: P567947

CATALOG NUMBER: 8SNX-66SL-LW-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 3.6 | 62.0 | 145.9 | 215.1 | 237.0 |
| 115° | 3.6 | 62.0 | 142.2 | 204.2 | 229.7 |
| 117.5° | 3.6 | 58.3 | 134.9 | 196.9 | 222.4 |
| 120° | 3.6 | 58.3 | 131.3 | 189.6 | 211.5 |
| 122.5° | 3.6 | 54.7 | 124.0 | 182.3 | 204.2 |
| 125° | 3.6 | 51.1 | 120.3 | 175.0 | 196.9 |
| 127.5° | 3.6 | 47.4 | 116.7 | 167.7 | 189.6 |
| 130° | 3.6 | 43.8 | 109.4 | 160.4 | 178.7 |
| 132.5° | 3.6 | 43.8 | 105.7 | 149.5 | 171.4 |
| 135° | 3.6 | 40.1 | 98.5 | 142.2 | 160.4 |
| 137.5° | 3.6 | 36.5 | 91.2 | 134.9 | 153.2 |
| 140° | 3.6 | 32.8 | 83.9 | 127.6 | 142.2 |
| 142.5° | 3.6 | 32.8 | 76.6 | 116.7 | 131.3 |
| 145° | 3.6 | 29.2 | 69.3 | 109.4 | 120.3 |
| 147.5° | 3.6 | 25.5 | 62.0 | 98.5 | 109.4 |
| 150° | 3.6 | 25.5 | 54.7 | 87.5 | 98.5 |
| 152.5° | 3.6 | 21.9 | 47.4 | 80.2 | 91.2 |
| 155° | 3.6 | 18.2 | 43.8 | 69.3 | 80.2 |
| 157.5° | 3.6 | 18.2 | 36.5 | 58.3 | 69.3 |
| 160° | 3.6 | 14.6 | 32.8 | 47.4 | 58.3 |
| 162.5° | 3.6 | 14.6 | 29.2 | 40.1 | 51.1 |
| 165° | 3.6 | 10.9 | 21.9 | 32.8 | 40.1 |
| 167.5° | 3.6 | 10.9 | 18.2 | 25.5 | 32.8 |
| 170° | 3.6 | 7.3 | 14.6 | 18.2 | 25.5 |
| 172.5° | 3.6 | 7.3 | 10.9 | 10.9 | 10.9 |
| 175° | 3.6 | 3.6 | 7.3 | 7.3 | 3.6 |
| 177.5° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 180° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |

(END OF REPORT)