

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: P567946

Luminaire Tested: **8SNX-66SL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567946
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-L830-CD
Description: 8FT 6600 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

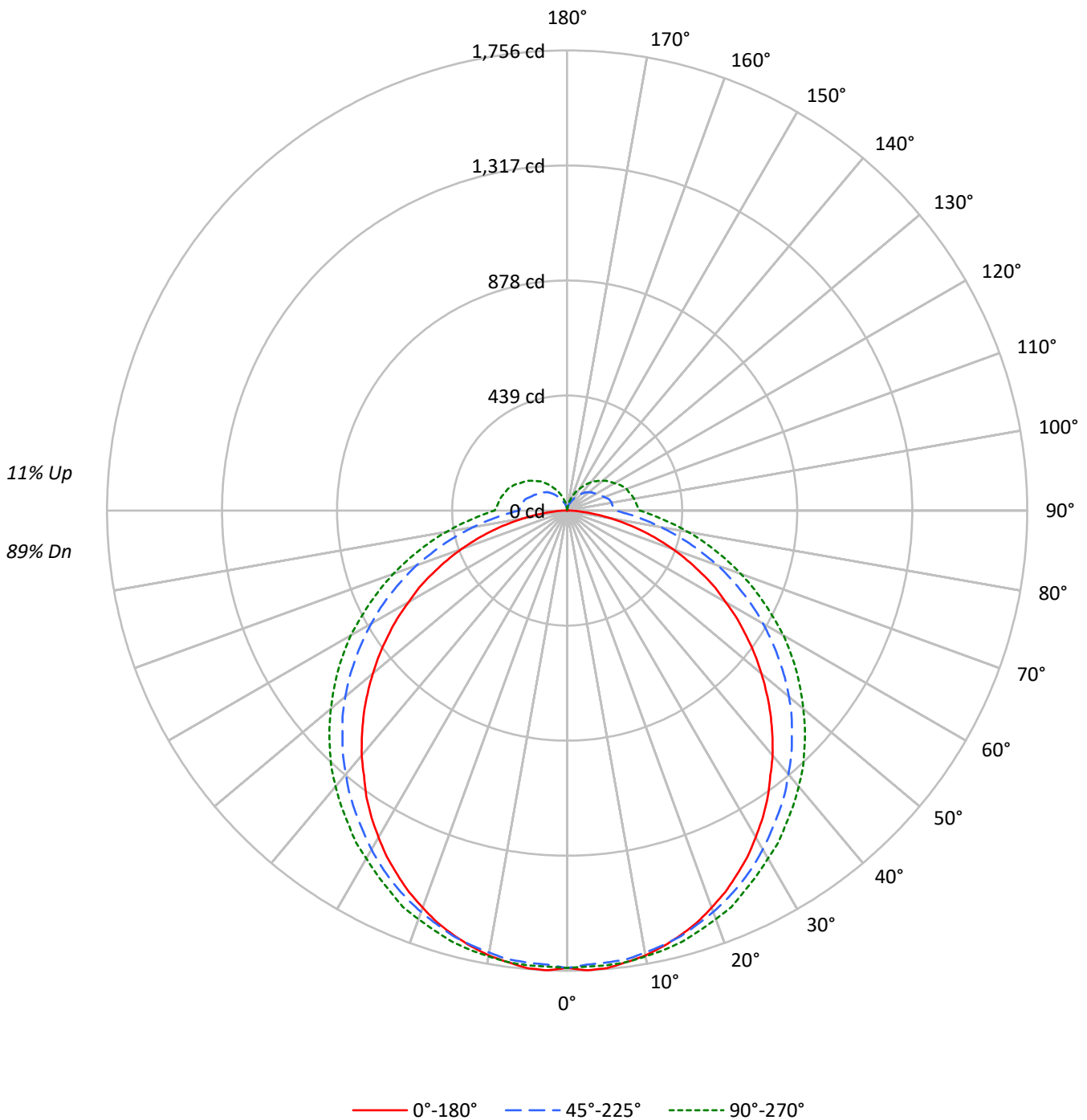
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6213.0 lumens
Efficiency: N/A
Efficacy: 147.2 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 (A_{in}): 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-L830-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° | 9393 | 9393 | 9393 |
| 5° | 9450 | 8970 | 8890 |
| 10° | 9386 | 8622 | 8447 |
| 15° | 9292 | 8284 | 8046 |
| 20° | 9164 | 7933 | 7646 |
| 25° | 9015 | 7595 | 7254 |
| 30° | 8839 | 7247 | 6879 |
| 35° | 8645 | 6897 | 6528 |
| 40° | 8423 | 6554 | 6193 |
| 45° | 8183 | 6211 | 5850 |
| 50° | 7909 | 5856 | 5490 |
| 55° | 7607 | 5461 | 5137 |
| 60° | 7253 | 5046 | 4764 |
| 65° | 6887 | 4599 | 4338 |
| 70° | 6373 | 4121 | 3919 |
| 75° | 5694 | 3563 | 3475 |
| 80° | 4587 | 2998 | 3033 |
| 85° | 3232 | 2474 | 2577 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 165.8 | 2.7 |
| 10°-20° | 476.5 | 7.7 |
| 20°-30° | 724.5 | 11.7 |
| 30°-40° | 879.5 | 14.2 |
| 40°-50° | 929.3 | 15.0 |
| 50°-60° | 869.6 | 14.0 |
| 60°-70° | 713.5 | 11.5 |
| 70°-80° | 490.8 | 7.9 |
| 80°-90° | 268.8 | 4.3 |
| 90°-100° | 173.1 | 2.8 |
| 100°-110° | 155.3 | 2.5 |
| 110°-120° | 128.5 | 2.1 |
| 120°-130° | 99.0 | 1.6 |
| 130°-140° | 69.6 | 1.1 |
| 140°-150° | 41.9 | 0.7 |
| 150°-160° | 20.1 | 0.3 |
| 160°-170° | 6.6 | 0.1 |
| 170°-180° | 0.8 | 0.0 |
| 0°-30° | 1366.7 | 22.0 |
| 0°-40° | 2246.2 | 36.2 |
| 0°-60° | 4045.1 | 65.1 |
| 0°-90° | 5518.2 | 88.8 |
| 90°-120° | 456.9 | 7.4 |
| 90°-150° | 667.4 | 10.7 |
| 90°-180° | 695.0 | 11.2 |
| 0°-180° | 6213.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1745 | 1745 | 1745 | 1745 | 1745 | |
| 5° | 1752 | 1749 | 1731 | 1745 | 1742 | 166 |
| 15° | 1677 | 1684 | 1680 | 1702 | 1702 | 473 |
| 25° | 1533 | 1551 | 1569 | 1601 | 1601 | 706 |
| 35° | 1335 | 1367 | 1407 | 1447 | 1457 | 834 |
| 45° | 1098 | 1148 | 1213 | 1267 | 1281 | 846 |
| 55° | 835 | 903 | 986 | 1047 | 1069 | 747 |
| 65° | 565 | 640 | 738 | 806 | 828 | 560 |
| 75° | 295 | 374 | 482 | 558 | 583 | 311 |
| 85° | 65 | 155 | 263 | 335 | 360 | 75 |
| 90° | 0 | 86 | 184 | 252 | 277 | 4 |
| 95° | 0 | 83 | 176 | 241 | 266 | 0 |
| 105° | 0 | 68 | 166 | 227 | 248 | 2 |
| 115° | 4 | 61 | 140 | 202 | 227 | 4 |
| 125° | 4 | 50 | 119 | 173 | 194 | 3 |
| 135° | 4 | 40 | 97 | 140 | 158 | 3 |
| 145° | 4 | 29 | 68 | 108 | 119 | 2 |
| 155° | 4 | 18 | 43 | 68 | 79 | 2 |
| 165° | 4 | 11 | 22 | 32 | 40 | 1 |
| 175° | 4 | 4 | 7 | 7 | 4 | 0 |
| 180° | 4 | 4 | 4 | 4 | 4 | |



TEST NUMBER: P567946

CATALOG NUMBER: 8SNX-66SL-LW-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1745.2 | 1745.2 | 1745.2 | 1745.2 | 1745.2 |
| 2.5° | 1756.0 | 1752.4 | 1734.5 | 1748.8 | 1741.6 |
| 5° | 1752.4 | 1748.8 | 1730.9 | 1745.2 | 1741.6 |
| 7.5° | 1738.0 | 1738.0 | 1727.3 | 1741.6 | 1738.0 |
| 10° | 1723.7 | 1723.7 | 1712.9 | 1730.9 | 1727.3 |
| 12.5° | 1702.1 | 1705.7 | 1698.5 | 1720.1 | 1716.5 |
| 15° | 1676.9 | 1684.1 | 1680.5 | 1702.1 | 1702.1 |
| 17.5° | 1648.1 | 1655.3 | 1655.3 | 1680.5 | 1680.5 |
| 20° | 1612.1 | 1622.9 | 1630.1 | 1658.9 | 1658.9 |
| 22.5° | 1576.1 | 1590.5 | 1601.3 | 1626.5 | 1637.3 |
| 25° | 1532.9 | 1550.9 | 1568.9 | 1601.3 | 1601.3 |
| 27.5° | 1489.8 | 1511.3 | 1532.9 | 1565.3 | 1568.9 |
| 30° | 1439.4 | 1464.6 | 1493.4 | 1525.7 | 1532.9 |
| 32.5° | 1389.0 | 1421.4 | 1450.2 | 1489.8 | 1500.6 |
| 35° | 1335.0 | 1367.4 | 1407.0 | 1446.6 | 1457.4 |
| 37.5° | 1273.8 | 1313.4 | 1363.8 | 1407.0 | 1417.8 |
| 40° | 1219.9 | 1263.1 | 1313.4 | 1363.8 | 1374.6 |
| 42.5° | 1158.7 | 1205.5 | 1266.7 | 1313.4 | 1331.4 |
| 45° | 1097.5 | 1147.9 | 1212.7 | 1266.7 | 1281.0 |
| 47.5° | 1032.8 | 1090.3 | 1162.3 | 1212.7 | 1230.7 |
| 50° | 968.0 | 1029.2 | 1104.7 | 1162.3 | 1176.7 |
| 52.5° | 903.2 | 968.0 | 1047.1 | 1104.7 | 1122.7 |
| 55° | 834.8 | 903.2 | 986.0 | 1047.1 | 1068.7 |
| 57.5° | 770.1 | 838.4 | 924.8 | 989.6 | 1011.2 |
| 60° | 698.1 | 777.3 | 863.6 | 928.4 | 953.6 |
| 62.5° | 636.9 | 708.9 | 802.5 | 867.2 | 888.8 |
| 65° | 565.0 | 640.5 | 737.7 | 806.1 | 827.6 |
| 67.5° | 496.6 | 575.8 | 672.9 | 744.9 | 766.5 |
| 70° | 428.2 | 507.4 | 611.7 | 680.1 | 705.3 |
| 72.5° | 359.8 | 442.6 | 543.4 | 618.9 | 644.1 |
| 75° | 295.1 | 374.2 | 482.2 | 557.8 | 582.9 |
| 77.5° | 226.7 | 313.1 | 421.0 | 496.6 | 525.4 |
| 80° | 165.5 | 255.5 | 363.4 | 439.0 | 467.8 |
| 82.5° | 111.6 | 201.5 | 309.5 | 385.0 | 413.8 |
| 85° | 64.8 | 154.7 | 262.7 | 334.7 | 359.8 |
| 87.5° | 32.4 | 118.7 | 219.5 | 291.5 | 316.7 |
| 90° | 0.0 | 86.4 | 183.5 | 251.9 | 277.1 |
| 92.5° | 0.0 | 82.8 | 179.9 | 244.7 | 269.9 |
| 95° | 0.0 | 82.8 | 176.3 | 241.1 | 266.3 |
| 97.5° | 0.0 | 79.2 | 172.7 | 241.1 | 262.7 |
| 100° | 0.0 | 75.6 | 172.7 | 237.5 | 259.1 |
| 102.5° | 0.0 | 72.0 | 169.1 | 233.9 | 255.5 |
| 105° | 0.0 | 68.4 | 165.5 | 226.7 | 248.3 |
| 107.5° | 3.6 | 68.4 | 158.3 | 223.1 | 244.7 |
| 110° | 3.6 | 64.8 | 151.1 | 219.5 | 241.1 |



TEST NUMBER: P567946

CATALOG NUMBER: 8SNX-66SL-LW-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 3.6 | 61.2 | 143.9 | 212.3 | 233.9 |
| 115° | 3.6 | 61.2 | 140.3 | 201.5 | 226.7 |
| 117.5° | 3.6 | 57.6 | 133.1 | 194.3 | 219.5 |
| 120° | 3.6 | 57.6 | 129.5 | 187.1 | 208.7 |
| 122.5° | 3.6 | 54.0 | 122.3 | 179.9 | 201.5 |
| 125° | 3.6 | 50.4 | 118.7 | 172.7 | 194.3 |
| 127.5° | 3.6 | 46.8 | 115.2 | 165.5 | 187.1 |
| 130° | 3.6 | 43.2 | 108.0 | 158.3 | 176.3 |
| 132.5° | 3.6 | 43.2 | 104.4 | 147.5 | 169.1 |
| 135° | 3.6 | 39.6 | 97.2 | 140.3 | 158.3 |
| 137.5° | 3.6 | 36.0 | 90.0 | 133.1 | 151.1 |
| 140° | 3.6 | 32.4 | 82.8 | 125.9 | 140.3 |
| 142.5° | 3.6 | 32.4 | 75.6 | 115.2 | 129.5 |
| 145° | 3.6 | 28.8 | 68.4 | 108.0 | 118.7 |
| 147.5° | 3.6 | 25.2 | 61.2 | 97.2 | 108.0 |
| 150° | 3.6 | 25.2 | 54.0 | 86.4 | 97.2 |
| 152.5° | 3.6 | 21.6 | 46.8 | 79.2 | 90.0 |
| 155° | 3.6 | 18.0 | 43.2 | 68.4 | 79.2 |
| 157.5° | 3.6 | 18.0 | 36.0 | 57.6 | 68.4 |
| 160° | 3.6 | 14.4 | 32.4 | 46.8 | 57.6 |
| 162.5° | 3.6 | 14.4 | 28.8 | 39.6 | 50.4 |
| 165° | 3.6 | 10.8 | 21.6 | 32.4 | 39.6 |
| 167.5° | 3.6 | 10.8 | 18.0 | 25.2 | 32.4 |
| 170° | 3.6 | 7.2 | 14.4 | 18.0 | 25.2 |
| 172.5° | 3.6 | 7.2 | 10.8 | 10.8 | 10.8 |
| 175° | 3.6 | 3.6 | 7.2 | 7.2 | 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)