

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: P567187

Luminaire Tested: **8SNX-102SL-SLW-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567187
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-102SL-SLW-UNV-L835-CD
Description: 8FT 10200 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

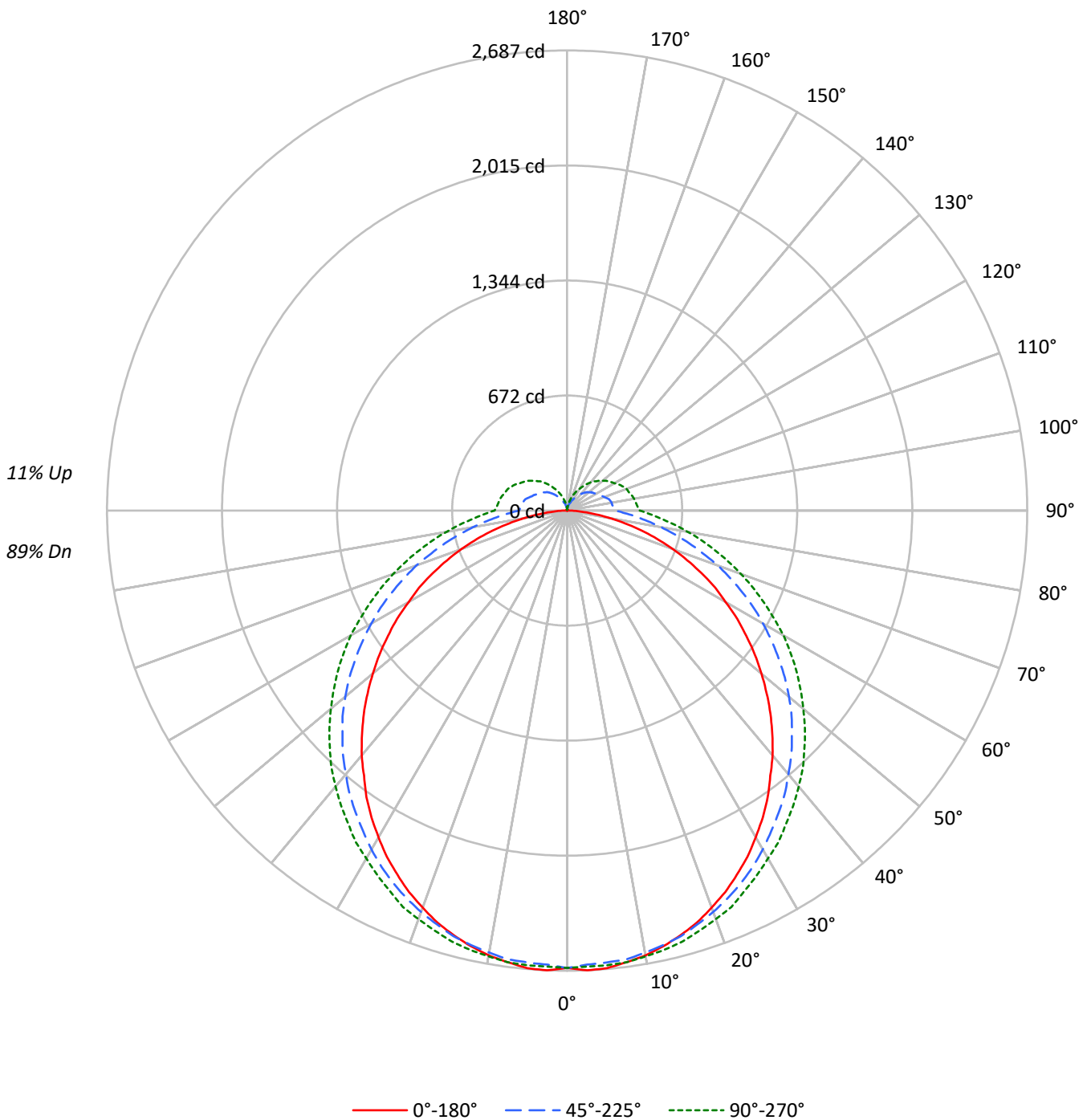
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9507.0 lumens
Efficiency: N/A
Efficacy: 135.8 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): 70
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: P567187
CATALOG NUMBER: 8SNX-102SL-SLW-UNV-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567187

CATALOG NUMBER: 8SNX-102SL-SLW-UNV-L835-CD

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° | 14373 | 14373 | 14373 |
| 5° | 14474 | 14012 | 13991 |
| 10° | 14388 | 13737 | 13645 |
| 15° | 14257 | 13455 | 13326 |
| 20° | 14075 | 13129 | 12971 |
| 25° | 13862 | 12810 | 12600 |
| 30° | 13606 | 12459 | 12233 |
| 35° | 13325 | 12095 | 11888 |
| 40° | 13001 | 11736 | 11558 |
| 45° | 12651 | 11371 | 11201 |
| 50° | 12250 | 10984 | 10802 |
| 55° | 11812 | 10519 | 10410 |
| 60° | 11295 | 10022 | 9972 |
| 65° | 10770 | 9462 | 9420 |
| 70° | 10024 | 8846 | 8881 |
| 75° | 9039 | 8060 | 8284 |
| 80° | 7414 | 7263 | 7696 |
| 85° | 5471 | 6590 | 7091 |



TEST NUMBER: P567187

CATALOG NUMBER: 8SNX-102SL-SLW-UNV-L835-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 253.7 | 2.7 |
| 10°-20° | 729.1 | 7.7 |
| 20°-30° | 1108.6 | 11.7 |
| 30°-40° | 1345.7 | 14.2 |
| 40°-50° | 1422.0 | 15.0 |
| 50°-60° | 1330.7 | 14.0 |
| 60°-70° | 1091.8 | 11.5 |
| 70°-80° | 751.0 | 7.9 |
| 80°-90° | 411.3 | 4.3 |
| 90°-100° | 264.8 | 2.8 |
| 100°-110° | 237.6 | 2.5 |
| 110°-120° | 196.7 | 2.1 |
| 120°-130° | 151.5 | 1.6 |
| 130°-140° | 106.4 | 1.1 |
| 140°-150° | 64.1 | 0.7 |
| 150°-160° | 30.7 | 0.3 |
| 160°-170° | 10.1 | 0.1 |
| 170°-180° | 1.2 | 0.0 |
| 0°-30° | 2091.3 | 22.0 |
| 0°-40° | 3437.0 | 36.2 |
| 0°-60° | 6189.8 | 65.1 |
| 0°-90° | 8443.8 | 88.8 |
| 90°-120° | 699.1 | 7.4 |
| 90°-150° | 1021.2 | 10.7 |
| 90°-180° | 1063.0 | 11.2 |
| 0°-180° | 9507.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2670 | 2670 | 2670 | 2670 | 2670 | |
| 5° | 2682 | 2676 | 2648 | 2670 | 2665 | 254 |
| 15° | 2566 | 2577 | 2571 | 2604 | 2604 | 724 |
| 25° | 2346 | 2373 | 2401 | 2450 | 2450 | 1081 |
| 35° | 2043 | 2092 | 2153 | 2214 | 2230 | 1276 |
| 45° | 1679 | 1756 | 1856 | 1938 | 1960 | 1294 |
| 55° | 1278 | 1382 | 1509 | 1602 | 1635 | 1143 |
| 65° | 864 | 980 | 1129 | 1233 | 1266 | 856 |
| 75° | 452 | 573 | 738 | 854 | 892 | 475 |
| 85° | 99 | 237 | 402 | 512 | 551 | 115 |
| 90° | 0 | 132 | 281 | 385 | 424 | 7 |
| 95° | 0 | 127 | 270 | 369 | 408 | 0 |
| 105° | 0 | 105 | 253 | 347 | 380 | 4 |
| 115° | 6 | 94 | 215 | 308 | 347 | 5 |
| 125° | 6 | 77 | 182 | 264 | 297 | 5 |
| 135° | 6 | 61 | 149 | 215 | 242 | 4 |
| 145° | 6 | 44 | 105 | 165 | 182 | 3 |
| 155° | 6 | 28 | 66 | 105 | 121 | 3 |
| 165° | 6 | 16 | 33 | 50 | 61 | 2 |
| 175° | 6 | 6 | 11 | 11 | 6 | 1 |
| 180° | 6 | 6 | 6 | 6 | 6 | |



TEST NUMBER: P567187

CATALOG NUMBER: 8SNX-102SL-SLW-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2670.5 | 2670.5 | 2670.5 | 2670.5 | 2670.5 |
| 2.5° | 2687.1 | 2681.6 | 2654.0 | 2676.0 | 2665.0 |
| 5° | 2681.6 | 2676.0 | 2648.5 | 2670.5 | 2665.0 |
| 7.5° | 2659.5 | 2659.5 | 2643.0 | 2665.0 | 2659.5 |
| 10° | 2637.5 | 2637.5 | 2621.0 | 2648.5 | 2643.0 |
| 12.5° | 2604.5 | 2610.0 | 2599.0 | 2632.0 | 2626.5 |
| 15° | 2565.9 | 2576.9 | 2571.4 | 2604.5 | 2604.5 |
| 17.5° | 2521.9 | 2532.9 | 2532.9 | 2571.4 | 2571.4 |
| 20° | 2466.8 | 2483.3 | 2494.3 | 2538.4 | 2538.4 |
| 22.5° | 2411.7 | 2433.8 | 2450.3 | 2488.8 | 2505.4 |
| 25° | 2345.7 | 2373.2 | 2400.7 | 2450.3 | 2450.3 |
| 27.5° | 2279.6 | 2312.6 | 2345.7 | 2395.2 | 2400.7 |
| 30° | 2202.5 | 2241.0 | 2285.1 | 2334.7 | 2345.7 |
| 32.5° | 2125.4 | 2175.0 | 2219.0 | 2279.6 | 2296.1 |
| 35° | 2042.8 | 2092.4 | 2152.9 | 2213.5 | 2230.0 |
| 37.5° | 1949.2 | 2009.8 | 2086.9 | 2152.9 | 2169.5 |
| 40° | 1866.6 | 1932.7 | 2009.8 | 2086.9 | 2103.4 |
| 42.5° | 1773.0 | 1844.6 | 1938.2 | 2009.8 | 2037.3 |
| 45° | 1679.4 | 1756.5 | 1855.6 | 1938.2 | 1960.2 |
| 47.5° | 1580.3 | 1668.4 | 1778.5 | 1855.6 | 1883.1 |
| 50° | 1481.2 | 1574.8 | 1690.4 | 1778.5 | 1800.5 |
| 52.5° | 1382.1 | 1481.2 | 1602.3 | 1690.4 | 1718.0 |
| 55° | 1277.5 | 1382.1 | 1508.7 | 1602.3 | 1635.4 |
| 57.5° | 1178.3 | 1283.0 | 1415.1 | 1514.2 | 1547.3 |
| 60° | 1068.2 | 1189.4 | 1321.5 | 1420.6 | 1459.2 |
| 62.5° | 974.6 | 1084.7 | 1227.9 | 1327.0 | 1360.0 |
| 65° | 864.5 | 980.1 | 1128.8 | 1233.4 | 1266.4 |
| 67.5° | 759.9 | 881.0 | 1029.7 | 1139.8 | 1172.8 |
| 70° | 655.2 | 776.4 | 936.1 | 1040.7 | 1079.2 |
| 72.5° | 550.6 | 677.3 | 831.4 | 947.1 | 985.6 |
| 75° | 451.5 | 572.7 | 737.8 | 853.5 | 892.0 |
| 77.5° | 346.9 | 479.0 | 644.2 | 759.9 | 803.9 |
| 80° | 253.3 | 390.9 | 556.1 | 671.8 | 715.8 |
| 82.5° | 170.7 | 308.4 | 473.5 | 589.2 | 633.2 |
| 85° | 99.1 | 236.8 | 402.0 | 512.1 | 550.6 |
| 87.5° | 49.6 | 181.7 | 335.9 | 446.0 | 484.6 |
| 90° | 0.0 | 132.2 | 280.8 | 385.4 | 424.0 |
| 92.5° | 0.0 | 126.6 | 275.3 | 374.4 | 413.0 |
| 95° | 0.0 | 126.6 | 269.8 | 368.9 | 407.5 |
| 97.5° | 0.0 | 121.1 | 264.3 | 368.9 | 402.0 |
| 100° | 0.0 | 115.6 | 264.3 | 363.4 | 396.5 |
| 102.5° | 0.0 | 110.1 | 258.8 | 357.9 | 390.9 |
| 105° | 0.0 | 104.6 | 253.3 | 346.9 | 379.9 |
| 107.5° | 5.5 | 104.6 | 242.3 | 341.4 | 374.4 |
| 110° | 5.5 | 99.1 | 231.3 | 335.9 | 368.9 |



TEST NUMBER: P567187

CATALOG NUMBER: 8SNX-102SL-SLW-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 5.5 | 93.6 | 220.3 | 324.9 | 357.9 |
| 115° | 5.5 | 93.6 | 214.7 | 308.4 | 346.9 |
| 117.5° | 5.5 | 88.1 | 203.7 | 297.3 | 335.9 |
| 120° | 5.5 | 88.1 | 198.2 | 286.3 | 319.4 |
| 122.5° | 5.5 | 82.6 | 187.2 | 275.3 | 308.4 |
| 125° | 5.5 | 77.1 | 181.7 | 264.3 | 297.3 |
| 127.5° | 5.5 | 71.6 | 176.2 | 253.3 | 286.3 |
| 130° | 5.5 | 66.1 | 165.2 | 242.3 | 269.8 |
| 132.5° | 5.5 | 66.1 | 159.7 | 225.8 | 258.8 |
| 135° | 5.5 | 60.6 | 148.7 | 214.7 | 242.3 |
| 137.5° | 5.5 | 55.1 | 137.7 | 203.7 | 231.3 |
| 140° | 5.5 | 49.6 | 126.6 | 192.7 | 214.7 |
| 142.5° | 5.5 | 49.6 | 115.6 | 176.2 | 198.2 |
| 145° | 5.5 | 44.1 | 104.6 | 165.2 | 181.7 |
| 147.5° | 5.5 | 38.5 | 93.6 | 148.7 | 165.2 |
| 150° | 5.5 | 38.5 | 82.6 | 132.2 | 148.7 |
| 152.5° | 5.5 | 33.0 | 71.6 | 121.1 | 137.7 |
| 155° | 5.5 | 27.5 | 66.1 | 104.6 | 121.1 |
| 157.5° | 5.5 | 27.5 | 55.1 | 88.1 | 104.6 |
| 160° | 5.5 | 22.0 | 49.6 | 71.6 | 88.1 |
| 162.5° | 5.5 | 22.0 | 44.1 | 60.6 | 77.1 |
| 165° | 5.5 | 16.5 | 33.0 | 49.6 | 60.6 |
| 167.5° | 5.5 | 16.5 | 27.5 | 38.5 | 49.6 |
| 170° | 5.5 | 11.0 | 22.0 | 27.5 | 38.5 |
| 172.5° | 5.5 | 11.0 | 16.5 | 16.5 | 16.5 |
| 175° | 5.5 | 5.5 | 11.0 | 11.0 | 5.5 |
| 177.5° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| 180° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |

(END OF REPORT)