

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: P567155

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-102SL-FDL-UNV-L835-CD
Description: 8FT 10200 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

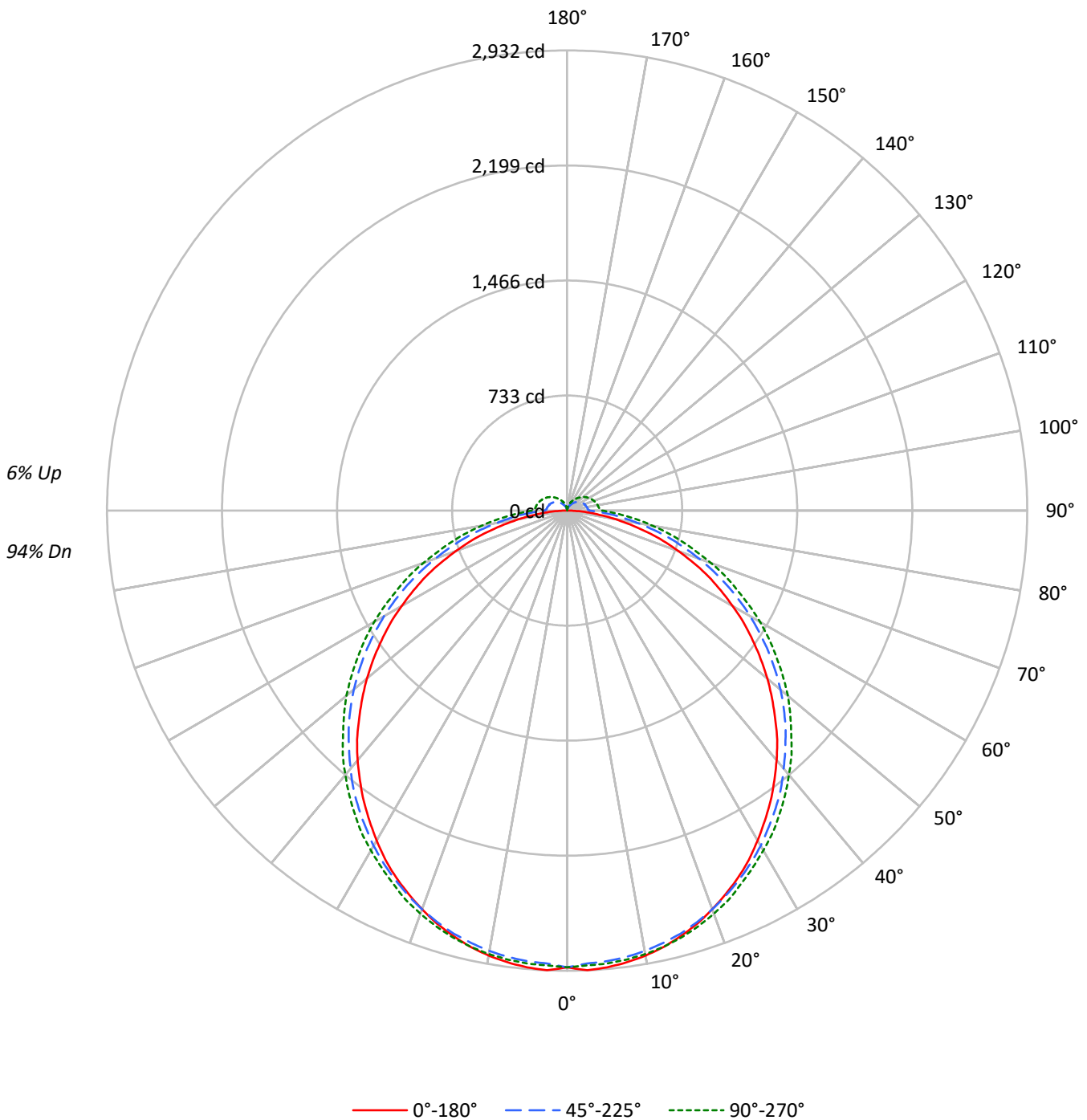
Lumens per Lamp: N/A
Luminaire Lumens: 9248.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Direct

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

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CATALOG NUMBER: 8SNX-102SL-FDL-UNV-L835-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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 94 |
| 1 | 107 | 102 | 97 | 93 | 103 | 99 | 95 | 91 | 93 | 90 | 87 | 88 | 86 | 83 | 84 | 82 | 80 | 77 |
| 2 | 97 | 88 | 81 | 75 | 93 | 86 | 79 | 74 | 81 | 76 | 71 | 77 | 73 | 69 | 73 | 69 | 66 | 64 |
| 3 | 88 | 77 | 69 | 62 | 85 | 75 | 67 | 61 | 71 | 65 | 59 | 68 | 62 | 57 | 64 | 60 | 56 | 53 |
| 4 | 80 | 68 | 59 | 52 | 78 | 66 | 58 | 52 | 63 | 56 | 50 | 60 | 54 | 49 | 57 | 52 | 48 | 45 |
| 5 | 74 | 61 | 52 | 45 | 71 | 59 | 51 | 44 | 56 | 49 | 43 | 54 | 47 | 42 | 51 | 46 | 41 | 39 |
| 6 | 68 | 55 | 46 | 39 | 66 | 53 | 45 | 39 | 51 | 43 | 38 | 49 | 42 | 37 | 47 | 41 | 36 | 34 |
| 7 | 63 | 49 | 41 | 34 | 61 | 48 | 40 | 34 | 46 | 39 | 33 | 44 | 38 | 33 | 43 | 37 | 32 | 30 |
| 8 | 59 | 45 | 36 | 31 | 57 | 44 | 36 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 39 | 33 | 29 | 27 |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 33 | 27 | 39 | 32 | 27 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |
| 10 | 51 | 38 | 30 | 25 | 50 | 37 | 30 | 25 | 36 | 29 | 24 | 35 | 28 | 24 | 33 | 28 | 24 | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15663 | 15663 | 15663 |
| 5° | 15777 | 15408 | 15427 |
| 10° | 15720 | 15246 | 15232 |
| 15° | 15609 | 15058 | 15015 |
| 20° | 15456 | 14830 | 14759 |
| 25° | 15280 | 14578 | 14456 |
| 30° | 15038 | 14323 | 14177 |
| 35° | 14795 | 14021 | 13885 |
| 40° | 14526 | 13688 | 13556 |
| 45° | 14186 | 13359 | 13174 |
| 50° | 13859 | 12984 | 12824 |
| 55° | 13453 | 12518 | 12338 |
| 60° | 12998 | 11985 | 11860 |
| 65° | 12520 | 11349 | 11201 |
| 70° | 11687 | 10549 | 10517 |
| 75° | 10690 | 9606 | 9700 |
| 80° | 9218 | 8354 | 8793 |
| 85° | 7443 | 7281 | 7729 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 276.0 | 3.0 |
| 10°-20° | 792.0 | 8.6 |
| 20°-30° | 1200.2 | 13.0 |
| 30°-40° | 1448.9 | 15.7 |
| 40°-50° | 1513.0 | 16.4 |
| 50°-60° | 1389.9 | 15.0 |
| 60°-70° | 1099.2 | 11.9 |
| 70°-80° | 695.6 | 7.5 |
| 80°-90° | 299.0 | 3.2 |
| 90°-100° | 131.6 | 1.4 |
| 100°-110° | 117.8 | 1.3 |
| 110°-120° | 99.5 | 1.1 |
| 120°-130° | 77.5 | 0.8 |
| 130°-140° | 53.7 | 0.6 |
| 140°-150° | 32.2 | 0.3 |
| 150°-160° | 15.7 | 0.2 |
| 160°-170° | 5.5 | 0.1 |
| 170°-180° | 0.8 | 0.0 |
| 0°-30° | 2268.1 | 24.5 |
| 0°-40° | 3717.0 | 40.2 |
| 0°-60° | 6619.9 | 71.6 |
| 0°-90° | 8713.7 | 94.2 |
| 90°-120° | 348.9 | 3.8 |
| 90°-150° | 512.3 | 5.5 |
| 90°-180° | 534.0 | 5.8 |
| 0°-180° | 9248.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2910 | 2910 | 2910 | 2910 | 2910 | |
| 5° | 2922 | 2913 | 2882 | 2907 | 2897 | 277 |
| 15° | 2805 | 2805 | 2791 | 2820 | 2815 | 791 |
| 25° | 2579 | 2591 | 2594 | 2628 | 2624 | 1188 |
| 35° | 2260 | 2286 | 2316 | 2352 | 2360 | 1413 |
| 45° | 1874 | 1919 | 1968 | 2006 | 2019 | 1447 |
| 55° | 1444 | 1503 | 1566 | 1616 | 1628 | 1292 |
| 65° | 994 | 1050 | 1124 | 1176 | 1194 | 979 |
| 75° | 524 | 586 | 672 | 729 | 757 | 555 |
| 85° | 128 | 196 | 282 | 342 | 364 | 141 |
| 90° | 8 | 70 | 144 | 201 | 223 | 11 |
| 95° | 2 | 61 | 131 | 183 | 203 | 1 |
| 105° | 2 | 56 | 123 | 172 | 190 | 2 |
| 115° | 2 | 48 | 111 | 156 | 172 | 2 |
| 125° | 3 | 43 | 93 | 134 | 149 | 3 |
| 135° | 3 | 33 | 75 | 106 | 120 | 3 |
| 145° | 3 | 25 | 52 | 80 | 88 | 2 |
| 155° | 3 | 16 | 34 | 51 | 61 | 2 |
| 165° | 5 | 12 | 18 | 25 | 34 | 1 |
| 175° | 5 | 7 | 8 | 8 | 5 | 0 |
| 180° | 5 | 5 | 5 | 5 | 5 | |



TEST NUMBER: P567155

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

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2910.2 | 2910.2 | 2910.2 | 2910.2 | 2910.2 |
| 2.5° | 2931.5 | 2921.6 | 2888.9 | 2911.8 | 2900.3 |
| 5° | 2921.6 | 2913.4 | 2882.3 | 2906.9 | 2897.1 |
| 7.5° | 2903.6 | 2897.1 | 2869.2 | 2895.4 | 2885.6 |
| 10° | 2879.1 | 2874.1 | 2849.6 | 2875.8 | 2869.2 |
| 12.5° | 2847.9 | 2846.3 | 2821.7 | 2851.2 | 2846.3 |
| 15° | 2805.4 | 2805.4 | 2790.6 | 2820.1 | 2815.2 |
| 17.5° | 2759.5 | 2761.1 | 2749.7 | 2780.8 | 2777.5 |
| 20° | 2703.8 | 2712.0 | 2703.8 | 2736.6 | 2733.3 |
| 22.5° | 2643.2 | 2654.7 | 2651.4 | 2684.2 | 2685.8 |
| 25° | 2579.4 | 2590.8 | 2594.1 | 2628.5 | 2623.6 |
| 27.5° | 2508.9 | 2527.0 | 2533.5 | 2564.6 | 2563.0 |
| 30° | 2427.1 | 2451.6 | 2466.4 | 2492.6 | 2500.7 |
| 32.5° | 2343.5 | 2373.0 | 2391.0 | 2427.1 | 2436.9 |
| 35° | 2260.0 | 2286.2 | 2315.7 | 2351.7 | 2359.9 |
| 37.5° | 2168.3 | 2197.8 | 2237.1 | 2271.5 | 2281.3 |
| 40° | 2076.6 | 2109.3 | 2147.0 | 2184.7 | 2199.4 |
| 42.5° | 1981.6 | 2016.0 | 2056.9 | 2101.2 | 2115.9 |
| 45° | 1873.5 | 1919.4 | 1968.5 | 2006.2 | 2019.3 |
| 47.5° | 1770.3 | 1821.1 | 1873.5 | 1914.5 | 1929.2 |
| 50° | 1665.5 | 1719.6 | 1775.3 | 1812.9 | 1835.8 |
| 52.5° | 1555.8 | 1614.8 | 1670.4 | 1717.9 | 1732.7 |
| 55° | 1444.4 | 1503.4 | 1565.6 | 1616.4 | 1627.9 |
| 57.5° | 1336.4 | 1393.7 | 1455.9 | 1503.4 | 1526.3 |
| 60° | 1218.4 | 1280.7 | 1347.8 | 1395.3 | 1419.9 |
| 62.5° | 1103.8 | 1164.4 | 1236.5 | 1287.2 | 1306.9 |
| 65° | 994.1 | 1049.8 | 1123.5 | 1175.9 | 1193.9 |
| 67.5° | 872.9 | 936.8 | 1007.2 | 1067.8 | 1090.7 |
| 70° | 753.3 | 813.9 | 894.2 | 951.5 | 974.4 |
| 72.5° | 642.0 | 700.9 | 781.2 | 838.5 | 859.8 |
| 75° | 524.1 | 586.3 | 671.5 | 728.8 | 756.6 |
| 77.5° | 411.1 | 479.8 | 561.7 | 624.0 | 655.1 |
| 80° | 306.2 | 366.8 | 455.3 | 524.1 | 551.9 |
| 82.5° | 208.0 | 273.5 | 365.2 | 429.1 | 460.2 |
| 85° | 127.7 | 196.5 | 281.7 | 342.3 | 363.6 |
| 87.5° | 60.6 | 126.1 | 204.7 | 263.7 | 289.9 |
| 90° | 8.2 | 70.4 | 144.1 | 201.4 | 222.7 |
| 92.5° | 1.6 | 60.6 | 132.7 | 186.7 | 206.3 |
| 95° | 1.6 | 60.6 | 131.0 | 183.4 | 203.1 |
| 97.5° | 1.6 | 59.0 | 129.4 | 181.8 | 199.8 |
| 100° | 1.6 | 57.3 | 127.7 | 178.5 | 198.2 |
| 102.5° | 1.6 | 57.3 | 124.5 | 175.2 | 193.2 |
| 105° | 1.6 | 55.7 | 122.8 | 172.0 | 190.0 |
| 107.5° | 1.6 | 54.0 | 119.6 | 168.7 | 186.7 |
| 110° | 1.6 | 50.8 | 117.9 | 163.8 | 181.8 |



TEST NUMBER: P567155

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 1.6 | 49.1 | 114.6 | 160.5 | 176.9 |
| 115° | 1.6 | 47.5 | 111.4 | 155.6 | 172.0 |
| 117.5° | 1.6 | 45.9 | 106.4 | 150.7 | 167.0 |
| 120° | 3.3 | 45.9 | 103.2 | 145.8 | 160.5 |
| 122.5° | 3.3 | 44.2 | 98.3 | 139.2 | 153.9 |
| 125° | 3.3 | 42.6 | 93.3 | 134.3 | 149.0 |
| 127.5° | 3.3 | 40.9 | 88.4 | 127.7 | 140.8 |
| 130° | 3.3 | 37.7 | 85.2 | 121.2 | 134.3 |
| 132.5° | 3.3 | 36.0 | 80.2 | 113.0 | 126.1 |
| 135° | 3.3 | 32.8 | 75.3 | 106.4 | 119.6 |
| 137.5° | 3.3 | 31.1 | 70.4 | 99.9 | 111.4 |
| 140° | 3.3 | 29.5 | 63.9 | 93.3 | 104.8 |
| 142.5° | 3.3 | 26.2 | 59.0 | 86.8 | 96.6 |
| 145° | 3.3 | 24.6 | 52.4 | 80.2 | 88.4 |
| 147.5° | 3.3 | 21.3 | 47.5 | 73.7 | 81.9 |
| 150° | 3.3 | 19.7 | 42.6 | 67.1 | 75.3 |
| 152.5° | 3.3 | 18.0 | 37.7 | 59.0 | 67.1 |
| 155° | 3.3 | 16.4 | 34.4 | 50.8 | 60.6 |
| 157.5° | 3.3 | 14.7 | 29.5 | 44.2 | 54.0 |
| 160° | 4.9 | 13.1 | 26.2 | 37.7 | 45.9 |
| 162.5° | 4.9 | 11.5 | 21.3 | 31.1 | 40.9 |
| 165° | 4.9 | 11.5 | 18.0 | 24.6 | 34.4 |
| 167.5° | 4.9 | 9.8 | 14.7 | 19.7 | 27.8 |
| 170° | 4.9 | 8.2 | 13.1 | 14.7 | 21.3 |
| 172.5° | 4.9 | 6.6 | 9.8 | 9.8 | 11.5 |
| 175° | 4.9 | 6.6 | 8.2 | 8.2 | 4.9 |
| 177.5° | 4.9 | 4.9 | 4.9 | 4.9 | 3.3 |
| 180° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |

(END OF REPORT)