

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: P567711

Luminaire Tested: **8SNX-200HL-LW-UNV-L935-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567711  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-200HL-LW-UNV-L935-CD  
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

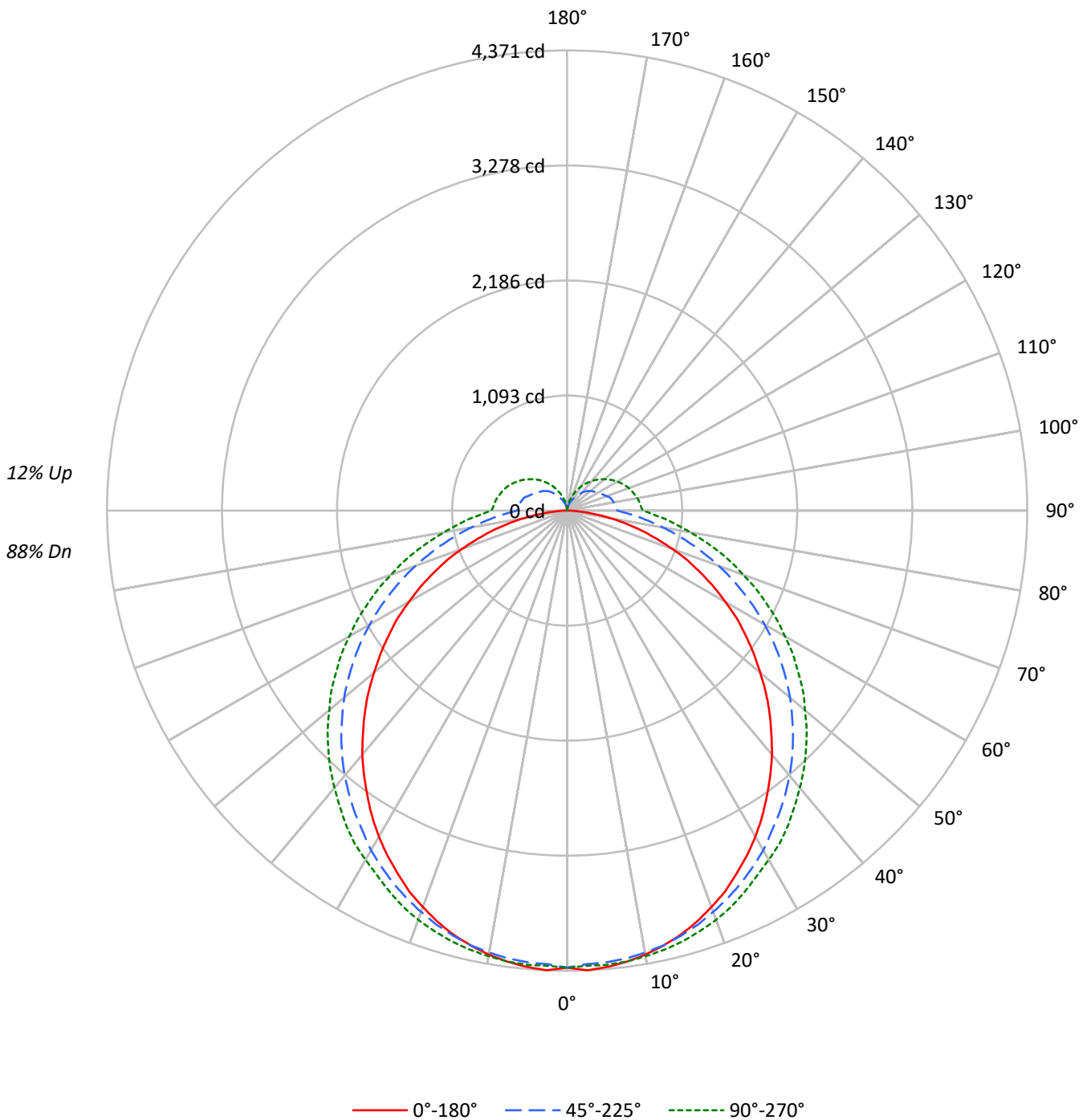
Lumens per Lamp: N/A  
Luminaire Lumens: 15629.0 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 145  
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





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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 | 91 | 91 | 91 | 88 |
| 1   | 105 | 99  | 95  | 90  | 101 | 96  | 92  | 88  | 89  | 86  | 83  | 84 | 81 | 78 | 78 | 76 | 74 | 71 |
| 2   | 95  | 86  | 79  | 72  | 91  | 83  | 76  | 71  | 77  | 72  | 67  | 72 | 68 | 64 | 68 | 64 | 61 | 58 |
| 3   | 86  | 75  | 66  | 60  | 82  | 72  | 65  | 58  | 68  | 61  | 56  | 63 | 58 | 53 | 59 | 55 | 51 | 48 |
| 4   | 78  | 66  | 57  | 50  | 75  | 64  | 56  | 49  | 60  | 53  | 47  | 56 | 50 | 45 | 53 | 48 | 43 | 41 |
| 5   | 72  | 59  | 50  | 43  | 69  | 57  | 48  | 42  | 54  | 46  | 41  | 50 | 44 | 39 | 47 | 42 | 38 | 35 |
| 6   | 66  | 53  | 44  | 37  | 64  | 51  | 43  | 37  | 48  | 41  | 35  | 45 | 39 | 34 | 43 | 37 | 33 | 31 |
| 7   | 61  | 48  | 39  | 33  | 59  | 46  | 38  | 32  | 44  | 36  | 31  | 41 | 35 | 30 | 39 | 33 | 29 | 27 |
| 8   | 57  | 43  | 35  | 29  | 55  | 42  | 34  | 29  | 40  | 33  | 28  | 38 | 31 | 27 | 36 | 30 | 26 | 24 |
| 9   | 53  | 40  | 32  | 26  | 51  | 39  | 31  | 26  | 37  | 30  | 25  | 35 | 29 | 24 | 33 | 27 | 23 | 21 |
| 10  | 50  | 37  | 29  | 23  | 48  | 36  | 28  | 23  | 34  | 27  | 22  | 32 | 26 | 22 | 31 | 25 | 21 | 19 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 23364 | 23364 | 23364 |
| 5°  | 23468 | 22316 | 22106 |
| 10° | 23317 | 21460 | 21019 |
| 15° | 23104 | 20608 | 20029 |
| 20° | 22775 | 19745 | 19071 |
| 25° | 22383 | 18903 | 18089 |
| 30° | 21957 | 18079 | 17186 |
| 35° | 21422 | 17212 | 16376 |
| 40° | 20901 | 16400 | 15495 |
| 45° | 20274 | 15544 | 14655 |
| 50° | 19548 | 14657 | 13761 |
| 55° | 18852 | 13681 | 12878 |
| 60° | 18046 | 12652 | 11926 |
| 65° | 17064 | 11531 | 10942 |
| 70° | 15814 | 10314 | 9875  |
| 75° | 14046 | 8978  | 8855  |
| 80° | 11572 | 7639  | 7686  |
| 85° | 8010  | 6352  | 6710  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 412.1   | 2.6       |
| 10°-20°   | 1185.5  | 7.6       |
| 20°-30°   | 1803.5  | 11.5      |
| 30°-40°   | 2192.9  | 14.0      |
| 40°-50°   | 2320.0  | 14.8      |
| 50°-60°   | 2174.7  | 13.9      |
| 60°-70°   | 1789.0  | 11.4      |
| 70°-80°   | 1237.9  | 7.9       |
| 80°-90°   | 688.3   | 4.4       |
| 90°-100°  | 453.5   | 2.9       |
| 100°-110° | 406.6   | 2.6       |
| 110°-120° | 336.6   | 2.2       |
| 120°-130° | 260.2   | 1.7       |
| 130°-140° | 184.2   | 1.2       |
| 140°-150° | 111.1   | 0.7       |
| 150°-160° | 53.4    | 0.3       |
| 160°-170° | 17.5    | 0.1       |
| 170°-180° | 2.1     | 0.0       |
| 0°-30°    | 3401.1  | 21.8      |
| 0°-40°    | 5594.0  | 35.8      |
| 0°-60°    | 10088.6 | 64.6      |
| 0°-90°    | 13803.9 | 88.3      |
| 90°-120°  | 1196.7  | 7.7       |
| 90°-150°  | 1752.2  | 11.2      |
| 90°-180°  | 1825.0  | 11.7      |
| 0°-180°   | 15629.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 4341 | 4341  | 4341 | 4341  | 4341 |      |
| 5°   | 4352 | 4344  | 4306 | 4341  | 4330 | 413  |
| 15°  | 4170 | 4183  | 4180 | 4237  | 4237 | 1175 |
| 25°  | 3806 | 3859  | 3905 | 3990  | 3993 | 1754 |
| 35°  | 3308 | 3396  | 3511 | 3624  | 3656 | 2070 |
| 45°  | 2719 | 2861  | 3035 | 3172  | 3209 | 2096 |
| 55°  | 2069 | 2254  | 2470 | 2626  | 2679 | 1852 |
| 65°  | 1400 | 1600  | 1849 | 2031  | 2088 | 1388 |
| 75°  | 728  | 939   | 1215 | 1408  | 1485 | 772  |
| 85°  | 161  | 399   | 674  | 862   | 937  | 185  |
| 90°  | 3    | 225   | 476  | 656   | 720  | 11   |
| 95°  | 3    | 214   | 463  | 634   | 696  | 2    |
| 105° | 3    | 185   | 434  | 597   | 650  | 3    |
| 115° | 5    | 161   | 367  | 530   | 589  | 4    |
| 125° | 5    | 136   | 313  | 452   | 508  | 5    |
| 135° | 5    | 107   | 262  | 372   | 418  | 4    |
| 145° | 5    | 78    | 182  | 281   | 316  | 3    |
| 155° | 8    | 54    | 112  | 179   | 209  | 4    |
| 165° | 8    | 35    | 62   | 83    | 107  | 2    |
| 175° | 8    | 13    | 19   | 19    | 11   | 1    |
| 180° | 5    | 5     | 5    | 5     | 5    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 4341.1 | 4341.1 | 4341.1 | 4341.1 | 4341.1 |
| 2.5°   | 4370.6 | 4357.2 | 4311.7 | 4341.1 | 4327.7 |
| 5°     | 4351.8 | 4343.8 | 4306.3 | 4341.1 | 4330.4 |
| 7.5°   | 4322.4 | 4319.7 | 4290.3 | 4330.4 | 4319.7 |
| 10°    | 4282.3 | 4287.6 | 4263.5 | 4306.3 | 4298.3 |
| 12.5°  | 4231.4 | 4239.4 | 4228.7 | 4276.9 | 4271.5 |
| 15°    | 4169.8 | 4183.2 | 4180.5 | 4236.8 | 4236.8 |
| 17.5°  | 4094.9 | 4113.6 | 4124.3 | 4188.6 | 4188.6 |
| 20°    | 4006.6 | 4036.0 | 4057.4 | 4127.0 | 4137.7 |
| 22.5°  | 3918.3 | 3953.1 | 3985.2 | 4057.4 | 4073.5 |
| 25°    | 3805.9 | 3859.4 | 3904.9 | 3990.5 | 3993.2 |
| 27.5°  | 3696.1 | 3755.0 | 3816.6 | 3899.5 | 3907.6 |
| 30°    | 3575.7 | 3650.6 | 3725.6 | 3805.9 | 3829.9 |
| 32.5°  | 3447.2 | 3530.2 | 3613.1 | 3720.2 | 3752.3 |
| 35°    | 3308.0 | 3396.4 | 3511.4 | 3623.9 | 3656.0 |
| 37.5°  | 3168.9 | 3267.9 | 3401.7 | 3516.8 | 3546.2 |
| 40°    | 3027.0 | 3136.7 | 3286.6 | 3404.4 | 3439.2 |
| 42.5°  | 2869.1 | 3002.9 | 3163.5 | 3289.3 | 3329.5 |
| 45°    | 2719.2 | 2861.1 | 3035.0 | 3171.5 | 3209.0 |
| 47.5°  | 2561.3 | 2711.2 | 2898.5 | 3043.1 | 3085.9 |
| 50°    | 2392.7 | 2564.0 | 2764.7 | 2909.3 | 2949.4 |
| 52.5°  | 2234.8 | 2408.8 | 2620.2 | 2770.1 | 2826.3 |
| 55°    | 2068.9 | 2253.5 | 2470.3 | 2625.6 | 2679.1 |
| 57.5°  | 1913.6 | 2090.3 | 2323.1 | 2478.4 | 2545.3 |
| 60°    | 1737.0 | 1932.4 | 2165.2 | 2333.8 | 2387.4 |
| 62.5°  | 1571.1 | 1769.1 | 2010.0 | 2183.9 | 2245.5 |
| 65°    | 1399.8 | 1600.5 | 1849.4 | 2031.4 | 2087.6 |
| 67.5°  | 1239.2 | 1437.2 | 1691.5 | 1870.8 | 1943.1 |
| 70°    | 1062.5 | 1271.3 | 1530.9 | 1715.6 | 1777.1 |
| 72.5°  | 888.6  | 1105.4 | 1370.3 | 1568.4 | 1638.0 |
| 75°    | 728.0  | 939.4  | 1215.1 | 1407.8 | 1485.4 |
| 77.5°  | 572.8  | 786.9  | 1065.2 | 1263.3 | 1330.2 |
| 80°    | 417.5  | 642.3  | 926.0  | 1121.4 | 1185.6 |
| 82.5°  | 275.7  | 511.2  | 792.2  | 987.6  | 1057.2 |
| 85°    | 160.6  | 398.8  | 674.5  | 861.8  | 936.7  |
| 87.5°  | 69.6   | 302.4  | 564.7  | 749.4  | 811.0  |
| 90°    | 2.7    | 224.8  | 476.4  | 655.7  | 720.0  |
| 92.5°  | 2.7    | 219.5  | 465.7  | 642.3  | 703.9  |
| 95°    | 2.7    | 214.1  | 463.0  | 634.3  | 695.9  |
| 97.5°  | 2.7    | 211.4  | 457.7  | 629.0  | 687.8  |
| 100°   | 2.7    | 203.4  | 449.6  | 618.2  | 677.1  |
| 102.5° | 2.7    | 192.7  | 441.6  | 607.5  | 663.7  |
| 105°   | 2.7    | 184.7  | 433.6  | 596.8  | 650.4  |
| 107.5° | 2.7    | 176.6  | 420.2  | 583.5  | 637.0  |
| 110°   | 2.7    | 168.6  | 398.8  | 570.1  | 623.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.7 | 165.9 | 382.7 | 551.3 | 607.5 |
| 115°   | 5.4 | 160.6 | 366.7 | 529.9 | 588.8 |
| 117.5° | 5.4 | 157.9 | 353.3 | 508.5 | 570.1 |
| 120°   | 5.4 | 149.9 | 339.9 | 489.8 | 548.7 |
| 122.5° | 5.4 | 141.8 | 326.5 | 471.0 | 529.9 |
| 125°   | 5.4 | 136.5 | 313.1 | 452.3 | 508.5 |
| 127.5° | 5.4 | 128.5 | 302.4 | 433.6 | 484.4 |
| 130°   | 5.4 | 123.1 | 289.1 | 412.2 | 463.0 |
| 132.5° | 5.4 | 115.1 | 275.7 | 390.8 | 438.9 |
| 135°   | 5.4 | 107.1 | 262.3 | 372.0 | 417.5 |
| 137.5° | 5.4 | 96.4  | 246.2 | 350.6 | 393.4 |
| 140°   | 5.4 | 88.3  | 224.8 | 329.2 | 369.3 |
| 142.5° | 5.4 | 83.0  | 203.4 | 305.1 | 342.6 |
| 145°   | 5.4 | 77.6  | 182.0 | 281.0 | 315.8 |
| 147.5° | 5.4 | 72.3  | 163.3 | 256.9 | 289.1 |
| 150°   | 5.4 | 64.2  | 144.5 | 235.5 | 262.3 |
| 152.5° | 8.0 | 58.9  | 128.5 | 208.8 | 235.5 |
| 155°   | 8.0 | 53.5  | 112.4 | 179.3 | 208.8 |
| 157.5° | 8.0 | 48.2  | 96.4  | 149.9 | 182.0 |
| 160°   | 8.0 | 42.8  | 83.0  | 123.1 | 155.2 |
| 162.5° | 8.0 | 40.1  | 72.3  | 101.7 | 131.1 |
| 165°   | 8.0 | 34.8  | 61.6  | 83.0  | 107.1 |
| 167.5° | 8.0 | 26.8  | 50.9  | 64.2  | 88.3  |
| 170°   | 8.0 | 21.4  | 40.1  | 45.5  | 66.9  |
| 172.5° | 8.0 | 16.1  | 29.4  | 32.1  | 34.8  |
| 175°   | 8.0 | 13.4  | 18.7  | 18.7  | 10.7  |
| 177.5° | 8.0 | 10.7  | 10.7  | 10.7  | 5.4   |
| 180°   | 5.4 | 5.4   | 5.4   | 5.4   | 5.4   |

(END OF REPORT)