

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: P566899

Luminaire Tested: **4SNX-84HL-UNV-L935-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566899  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-84HL-UNV-L935-CD  
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

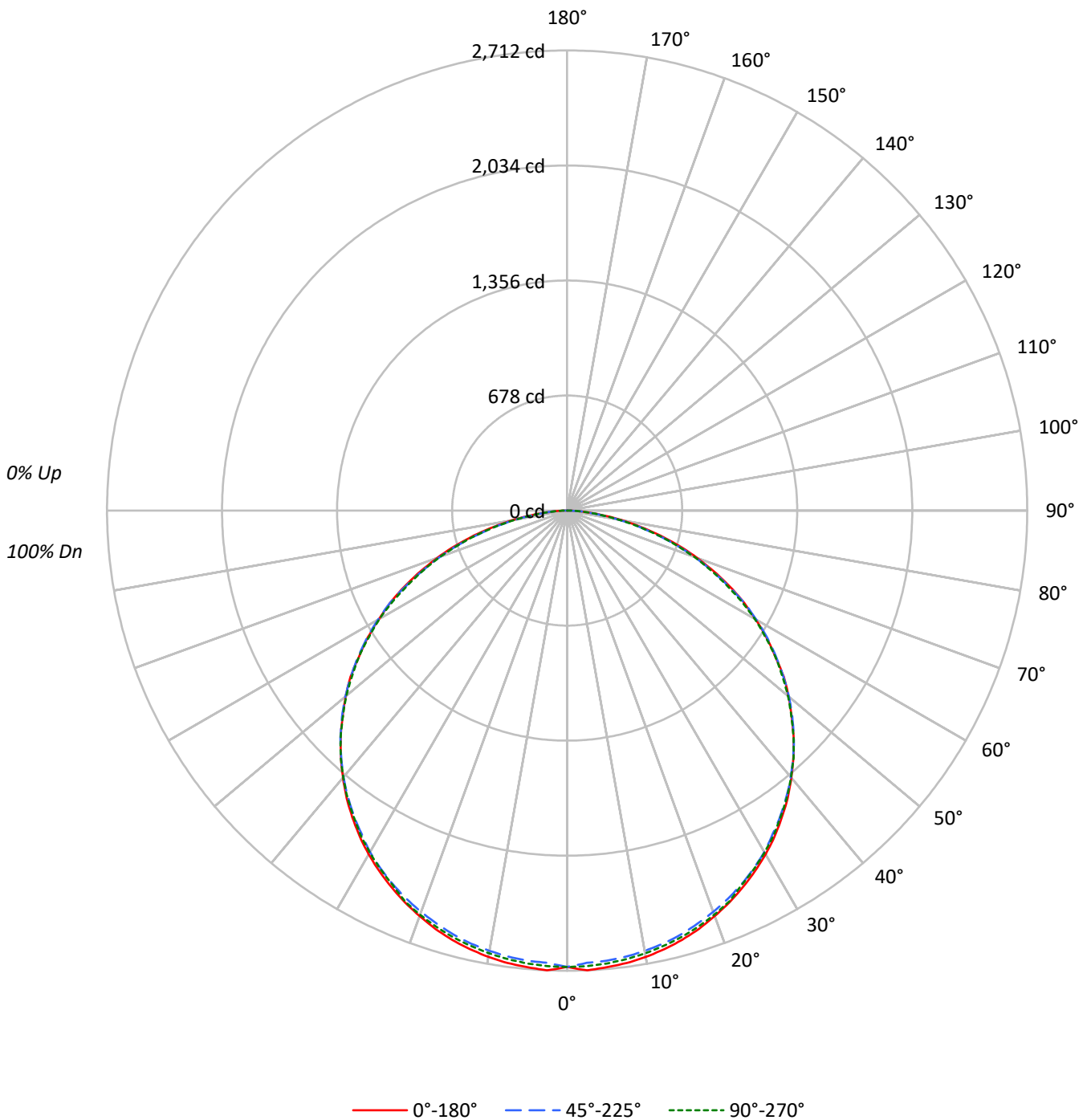
Lumens per Lamp: N/A  
Luminaire Lumens: 8051.0 lumens  
Efficiency: N/A  
Efficacy: 139.1 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 57.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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  | 50  | 30 | 10 | 50 | 30 | 10  | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 109 | 104 | 99  | 95  | 106 | 101 | 98  | 94  | 97  | 94  | 91  | 93  | 91  | 88  | 90  | 88  | 86  | 83  |    |    |    |    | 83  |   |  |   |
| 2   | 99  | 90  | 83  | 77  | 96  | 88  | 82  | 76  | 85  | 79  | 75  | 81  | 77  | 73  | 78  | 75  | 71  | 69  |    |    |    |    | 69  |   |  |   |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 63  | 74  | 68  | 62  | 72  | 66  | 61  | 69  | 64  | 60  | 58  |    |    |    |    | 58  |   |  |   |
| 4   | 82  | 70  | 61  | 54  | 80  | 68  | 60  | 54  | 66  | 59  | 53  | 64  | 57  | 52  | 61  | 56  | 51  | 49  |    |    |    |    | 49  |   |  |   |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 42  |    |    |    |    | 42  |   |  |   |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  | 51  | 45  | 39  | 50  | 44  | 39  | 37  |    |    |    |    | 37  |   |  |   |
| 7   | 64  | 51  | 42  | 35  | 63  | 50  | 41  | 35  | 48  | 41  | 35  | 47  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |    |    | 33  |   |  |   |
| 8   | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 29  |    |    |    |    | 29  |   |  |   |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 41  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |    |    | 26  |   |  |   |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 36  | 30  | 25  | 23  |    |    |    |    | 23  |   |  |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 28951 | 28951 | 28951 |
| 5°  | 29183 | 28778 | 28950 |
| 10° | 29198 | 28799 | 28961 |
| 15° | 29185 | 28830 | 28995 |
| 20° | 29126 | 28827 | 29035 |
| 25° | 29091 | 28861 | 28915 |
| 30° | 29072 | 28888 | 28916 |
| 35° | 29001 | 28821 | 28865 |
| 40° | 28884 | 28819 | 28836 |
| 45° | 28726 | 28778 | 28726 |
| 50° | 28533 | 28590 | 28438 |
| 55° | 28088 | 28238 | 28088 |
| 60° | 27616 | 27736 | 27493 |
| 65° | 26932 | 26613 | 26323 |
| 70° | 25649 | 25073 | 25004 |
| 75° | 23668 | 22533 | 22628 |
| 80° | 20251 | 18980 | 19334 |
| 85° | 15043 | 14758 | 13770 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 255.2  | 3.2       |
| 10°-20°   | 735.4  | 9.1       |
| 20°-30°   | 1125.9 | 14.0      |
| 30°-40°   | 1377.3 | 17.1      |
| 40°-50°   | 1456.7 | 18.1      |
| 50°-60°   | 1342.2 | 16.7      |
| 60°-70°   | 1033.1 | 12.8      |
| 70°-80°   | 580.4  | 7.2       |
| 80°-90°   | 144.8  | 1.8       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 2116.6 | 26.3      |
| 0°-40°    | 3493.8 | 43.4      |
| 0°-60°    | 6292.8 | 78.2      |
| 0°-90°    | 8051.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8051.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2690 | 2690  | 2690 | 2690  | 2690 |      |
| 5°  | 2701 | 2693  | 2663 | 2687  | 2679 | 257  |
| 15° | 2619 | 2612  | 2587 | 2610  | 2602 | 739  |
| 25° | 2449 | 2447  | 2430 | 2447  | 2435 | 1130 |
| 35° | 2207 | 2204  | 2193 | 2204  | 2197 | 1381 |
| 45° | 1887 | 1893  | 1890 | 1886  | 1887 | 1455 |
| 55° | 1497 | 1510  | 1505 | 1500  | 1497 | 1340 |
| 65° | 1057 | 1060  | 1045 | 1030  | 1034 | 1043 |
| 75° | 569  | 560   | 542  | 534   | 544  | 599  |
| 85° | 122  | 120   | 120  | 116   | 112  | 150  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2689.6 | 2689.6 | 2689.6 | 2689.6 | 2689.6 |
| 2.5°  | 2712.3 | 2697.5 | 2667.9 | 2694.1 | 2687.3 |
| 5°    | 2700.9 | 2693.0 | 2663.4 | 2687.3 | 2679.3 |
| 7.5°  | 2689.6 | 2680.5 | 2652.0 | 2678.2 | 2666.8 |
| 10°   | 2671.4 | 2663.4 | 2634.9 | 2660.0 | 2649.7 |
| 12.5° | 2647.5 | 2640.6 | 2614.4 | 2638.3 | 2628.1 |
| 15°   | 2619.0 | 2612.2 | 2587.1 | 2609.9 | 2601.9 |
| 17.5° | 2584.9 | 2576.9 | 2553.0 | 2576.9 | 2571.2 |
| 20°   | 2542.7 | 2538.2 | 2516.6 | 2538.2 | 2534.8 |
| 22.5° | 2499.5 | 2493.8 | 2476.7 | 2492.7 | 2493.8 |
| 25°   | 2449.4 | 2447.1 | 2430.1 | 2447.1 | 2434.6 |
| 27.5° | 2397.0 | 2397.0 | 2380.0 | 2391.4 | 2383.4 |
| 30°   | 2339.0 | 2337.9 | 2324.2 | 2329.9 | 2326.5 |
| 32.5° | 2276.4 | 2275.3 | 2257.0 | 2271.8 | 2266.2 |
| 35°   | 2207.0 | 2203.6 | 2193.3 | 2203.6 | 2196.7 |
| 37.5° | 2135.3 | 2131.8 | 2123.9 | 2129.6 | 2128.4 |
| 40°   | 2055.6 | 2055.6 | 2051.0 | 2055.6 | 2052.2 |
| 42.5° | 1973.6 | 1977.1 | 1971.4 | 1975.9 | 1975.9 |
| 45°   | 1887.1 | 1892.8 | 1890.5 | 1886.0 | 1887.1 |
| 47.5° | 1794.9 | 1805.2 | 1799.5 | 1798.4 | 1792.7 |
| 50°   | 1703.9 | 1713.0 | 1707.3 | 1701.6 | 1698.2 |
| 52.5° | 1609.4 | 1614.0 | 1607.1 | 1604.9 | 1596.9 |
| 55°   | 1496.7 | 1510.4 | 1504.7 | 1500.1 | 1496.7 |
| 57.5° | 1393.2 | 1403.4 | 1398.8 | 1389.7 | 1384.1 |
| 60°   | 1282.8 | 1290.7 | 1288.4 | 1278.2 | 1277.1 |
| 62.5° | 1174.6 | 1176.9 | 1174.6 | 1156.4 | 1157.5 |
| 65°   | 1057.4 | 1059.7 | 1044.9 | 1030.1 | 1033.5 |
| 67.5° | 934.5  | 941.3  | 920.8  | 899.2  | 914.0  |
| 70°   | 815.0  | 812.7  | 796.7  | 772.8  | 794.5  |
| 72.5° | 692.0  | 689.7  | 671.5  | 654.5  | 669.3  |
| 75°   | 569.1  | 560.0  | 541.8  | 533.8  | 544.1  |
| 77.5° | 441.6  | 431.4  | 423.4  | 417.7  | 422.3  |
| 80°   | 326.7  | 313.0  | 306.2  | 301.6  | 311.9  |
| 82.5° | 217.4  | 207.2  | 203.7  | 207.2  | 204.9  |
| 85°   | 121.8  | 119.5  | 119.5  | 116.1  | 111.5  |
| 87.5° | 50.1   | 52.4   | 53.5   | 52.4   | 50.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)