

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: P567419

Luminaire Tested: **8SNX-148HL-LW-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567419  
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-148HL-LW-UNV-L835-CD  
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

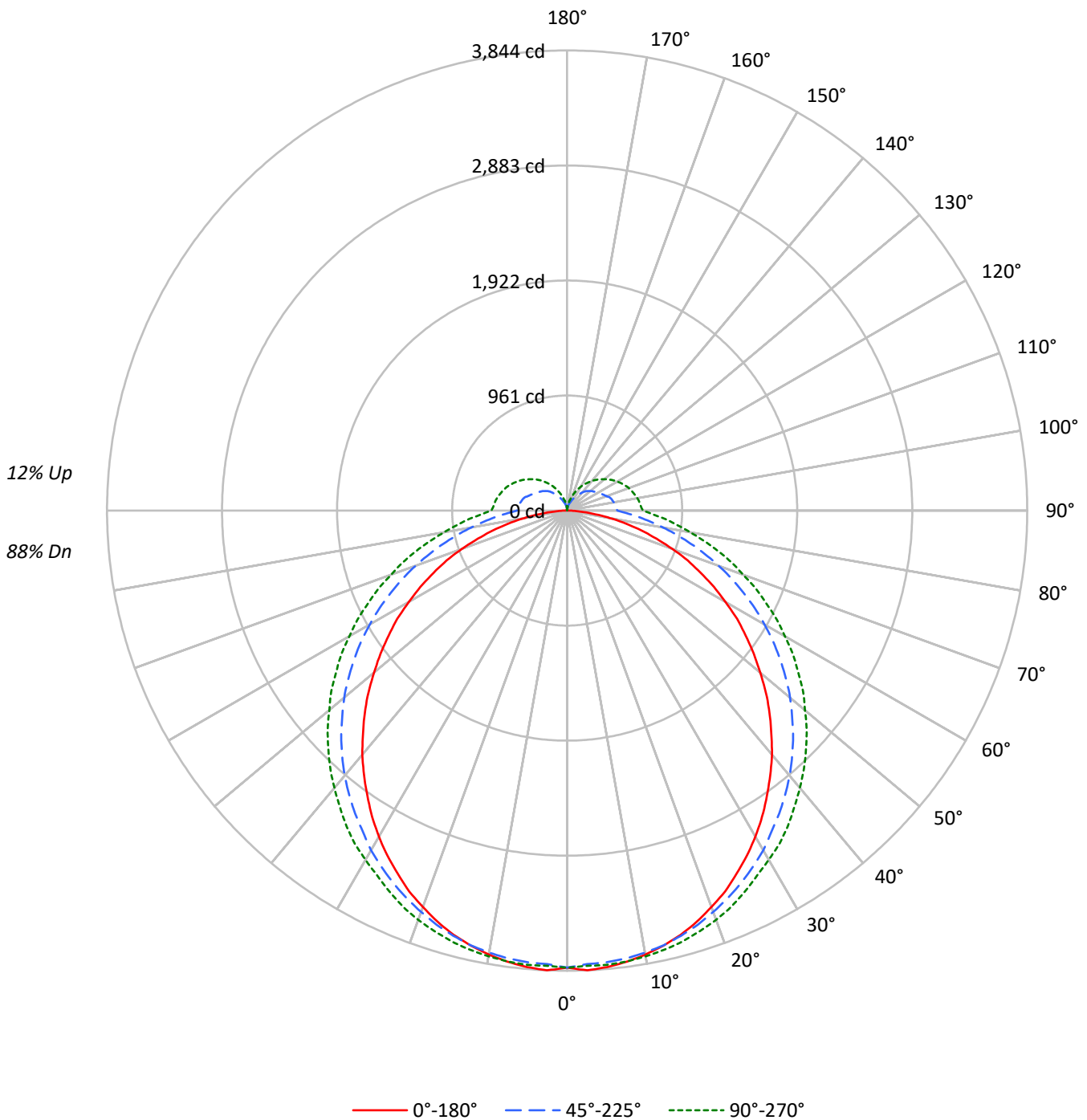
Lumens per Lamp: N/A  
Luminaire Lumens: 13746.0 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 103.6  
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 | 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°  | 20549 | 20549 | 20549 |
| 5°  | 20641 | 19627 | 19443 |
| 10° | 20507 | 18875 | 18487 |
| 15° | 20321 | 18126 | 17615 |
| 20° | 20031 | 17366 | 16773 |
| 25° | 19686 | 16626 | 15910 |
| 30° | 19312 | 15900 | 15116 |
| 35° | 18841 | 15138 | 14403 |
| 40° | 18383 | 14425 | 13628 |
| 45° | 17832 | 13671 | 12889 |
| 50° | 17193 | 12891 | 12104 |
| 55° | 16580 | 12033 | 11326 |
| 60° | 15871 | 11128 | 10489 |
| 65° | 15007 | 10141 | 9624  |
| 70° | 13909 | 9072  | 8686  |
| 75° | 12354 | 7896  | 7788  |
| 80° | 10178 | 6719  | 6760  |
| 85° | 7042  | 5587  | 5902  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 362.5   | 2.6       |
| 10°-20°   | 1042.7  | 7.6       |
| 20°-30°   | 1586.2  | 11.5      |
| 30°-40°   | 1928.7  | 14.0      |
| 40°-50°   | 2040.5  | 14.8      |
| 50°-60°   | 1912.7  | 13.9      |
| 60°-70°   | 1573.5  | 11.4      |
| 70°-80°   | 1088.7  | 7.9       |
| 80°-90°   | 605.4   | 4.4       |
| 90°-100°  | 398.8   | 2.9       |
| 100°-110° | 357.6   | 2.6       |
| 110°-120° | 296.0   | 2.2       |
| 120°-130° | 228.9   | 1.7       |
| 130°-140° | 162.0   | 1.2       |
| 140°-150° | 97.7    | 0.7       |
| 150°-160° | 46.9    | 0.3       |
| 160°-170° | 15.4    | 0.1       |
| 170°-180° | 1.9     | 0.0       |
| 0°-30°    | 2991.3  | 21.8      |
| 0°-40°    | 4920.0  | 35.8      |
| 0°-60°    | 8873.1  | 64.6      |
| 0°-90°    | 12140.7 | 88.3      |
| 90°-120°  | 1052.5  | 7.7       |
| 90°-150°  | 1541.1  | 11.2      |
| 90°-180°  | 1605.0  | 11.7      |
| 0°-180°   | 13746.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3818 | 3818  | 3818 | 3818  | 3818 |      |
| 5°   | 3828 | 3820  | 3788 | 3818  | 3809 | 363  |
| 15°  | 3668 | 3679  | 3677 | 3726  | 3726 | 1034 |
| 25°  | 3347 | 3394  | 3434 | 3510  | 3512 | 1543 |
| 35°  | 2910 | 2987  | 3088 | 3187  | 3216 | 1821 |
| 45°  | 2392 | 2516  | 2669 | 2789  | 2822 | 1843 |
| 55°  | 1820 | 1982  | 2173 | 2309  | 2356 | 1629 |
| 65°  | 1231 | 1408  | 1627 | 1787  | 1836 | 1221 |
| 75°  | 640  | 826   | 1069 | 1238  | 1306 | 679  |
| 85°  | 141  | 351   | 593  | 758   | 824  | 163  |
| 90°  | 2    | 198   | 419  | 577   | 633  | 9    |
| 95°  | 2    | 188   | 407  | 558   | 612  | 2    |
| 105° | 2    | 162   | 381  | 525   | 572  | 3    |
| 115° | 5    | 141   | 322  | 466   | 518  | 4    |
| 125° | 5    | 120   | 275  | 398   | 447  | 4    |
| 135° | 5    | 94    | 231  | 327   | 367  | 4    |
| 145° | 5    | 68    | 160  | 247   | 278  | 3    |
| 155° | 7    | 47    | 99   | 158   | 184  | 3    |
| 165° | 7    | 31    | 54   | 73    | 94   | 2    |
| 175° | 7    | 12    | 16   | 16    | 9    | 1    |
| 180° | 5    | 5     | 5    | 5     | 5    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3818.1 | 3818.1 | 3818.1 | 3818.1 | 3818.1 |
| 2.5°   | 3844.0 | 3832.2 | 3792.2 | 3818.1 | 3806.3 |
| 5°     | 3827.5 | 3820.5 | 3787.5 | 3818.1 | 3808.7 |
| 7.5°   | 3801.6 | 3799.3 | 3773.4 | 3808.7 | 3799.3 |
| 10°    | 3766.3 | 3771.0 | 3749.8 | 3787.5 | 3780.4 |
| 12.5°  | 3721.6 | 3728.7 | 3719.2 | 3761.6 | 3756.9 |
| 15°    | 3667.5 | 3679.2 | 3676.9 | 3726.3 | 3726.3 |
| 17.5°  | 3601.5 | 3618.0 | 3627.4 | 3683.9 | 3683.9 |
| 20°    | 3523.9 | 3549.8 | 3568.6 | 3629.8 | 3639.2 |
| 22.5°  | 3446.2 | 3476.8 | 3505.0 | 3568.6 | 3582.7 |
| 25°    | 3347.3 | 3394.4 | 3434.4 | 3509.7 | 3512.1 |
| 27.5°  | 3250.8 | 3302.6 | 3356.7 | 3429.7 | 3436.8 |
| 30°    | 3144.9 | 3210.8 | 3276.7 | 3347.3 | 3368.5 |
| 32.5°  | 3031.9 | 3104.9 | 3177.8 | 3272.0 | 3300.2 |
| 35°    | 2909.5 | 2987.2 | 3088.4 | 3187.2 | 3215.5 |
| 37.5°  | 2787.1 | 2874.2 | 2991.9 | 3093.1 | 3119.0 |
| 40°    | 2662.3 | 2758.8 | 2890.7 | 2994.2 | 3024.8 |
| 42.5°  | 2523.4 | 2641.1 | 2782.4 | 2893.0 | 2928.3 |
| 45°    | 2391.6 | 2516.4 | 2669.4 | 2789.4 | 2822.4 |
| 47.5°  | 2252.7 | 2384.6 | 2549.3 | 2676.4 | 2714.1 |
| 50°    | 2104.4 | 2255.1 | 2431.6 | 2558.7 | 2594.1 |
| 52.5°  | 1965.5 | 2118.6 | 2304.5 | 2436.3 | 2485.8 |
| 55°    | 1819.6 | 1982.0 | 2172.7 | 2309.2 | 2356.3 |
| 57.5°  | 1683.1 | 1838.4 | 2043.2 | 2179.8 | 2238.6 |
| 60°    | 1527.7 | 1699.6 | 1904.3 | 2052.6 | 2099.7 |
| 62.5°  | 1381.8 | 1556.0 | 1767.8 | 1920.8 | 1975.0 |
| 65°    | 1231.1 | 1407.7 | 1626.6 | 1786.6 | 1836.1 |
| 67.5°  | 1089.9 | 1264.1 | 1487.7 | 1645.4 | 1709.0 |
| 70°    | 934.5  | 1118.1 | 1346.5 | 1508.9 | 1563.0 |
| 72.5°  | 781.5  | 972.2  | 1205.2 | 1379.4 | 1440.6 |
| 75°    | 640.3  | 826.2  | 1068.7 | 1238.2 | 1306.4 |
| 77.5°  | 503.7  | 692.1  | 936.9  | 1111.1 | 1169.9 |
| 80°    | 367.2  | 564.9  | 814.5  | 986.3  | 1042.8 |
| 82.5°  | 242.5  | 449.6  | 696.8  | 868.6  | 929.8  |
| 85°    | 141.2  | 350.7  | 593.2  | 758.0  | 823.9  |
| 87.5°  | 61.2   | 266.0  | 496.7  | 659.1  | 713.2  |
| 90°    | 2.4    | 197.7  | 419.0  | 576.7  | 633.2  |
| 92.5°  | 2.4    | 193.0  | 409.6  | 564.9  | 619.1  |
| 95°    | 2.4    | 188.3  | 407.2  | 557.9  | 612.0  |
| 97.5°  | 2.4    | 186.0  | 402.5  | 553.2  | 605.0  |
| 100°   | 2.4    | 178.9  | 395.5  | 543.8  | 595.5  |
| 102.5° | 2.4    | 169.5  | 388.4  | 534.3  | 583.8  |
| 105°   | 2.4    | 162.4  | 381.3  | 524.9  | 572.0  |
| 107.5° | 2.4    | 155.4  | 369.6  | 513.2  | 560.2  |
| 110°   | 2.4    | 148.3  | 350.7  | 501.4  | 548.5  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.4 | 145.9 | 336.6 | 484.9 | 534.3 |
| 115°   | 4.7 | 141.2 | 322.5 | 466.1 | 517.9 |
| 117.5° | 4.7 | 138.9 | 310.7 | 447.3 | 501.4 |
| 120°   | 4.7 | 131.8 | 299.0 | 430.8 | 482.6 |
| 122.5° | 4.7 | 124.8 | 287.2 | 414.3 | 466.1 |
| 125°   | 4.7 | 120.1 | 275.4 | 397.8 | 447.3 |
| 127.5° | 4.7 | 113.0 | 266.0 | 381.3 | 426.1 |
| 130°   | 4.7 | 108.3 | 254.2 | 362.5 | 407.2 |
| 132.5° | 4.7 | 101.2 | 242.5 | 343.7 | 386.0 |
| 135°   | 4.7 | 94.2  | 230.7 | 327.2 | 367.2 |
| 137.5° | 4.7 | 84.7  | 216.6 | 308.4 | 346.0 |
| 140°   | 4.7 | 77.7  | 197.7 | 289.5 | 324.8 |
| 142.5° | 4.7 | 73.0  | 178.9 | 268.4 | 301.3 |
| 145°   | 4.7 | 68.3  | 160.1 | 247.2 | 277.8 |
| 147.5° | 4.7 | 63.6  | 143.6 | 226.0 | 254.2 |
| 150°   | 4.7 | 56.5  | 127.1 | 207.1 | 230.7 |
| 152.5° | 7.1 | 51.8  | 113.0 | 183.6 | 207.1 |
| 155°   | 7.1 | 47.1  | 98.9  | 157.7 | 183.6 |
| 157.5° | 7.1 | 42.4  | 84.7  | 131.8 | 160.1 |
| 160°   | 7.1 | 37.7  | 73.0  | 108.3 | 136.5 |
| 162.5° | 7.1 | 35.3  | 63.6  | 89.5  | 115.3 |
| 165°   | 7.1 | 30.6  | 54.1  | 73.0  | 94.2  |
| 167.5° | 7.1 | 23.5  | 44.7  | 56.5  | 77.7  |
| 170°   | 7.1 | 18.8  | 35.3  | 40.0  | 58.8  |
| 172.5° | 7.1 | 14.1  | 25.9  | 28.2  | 30.6  |
| 175°   | 7.1 | 11.8  | 16.5  | 16.5  | 9.4   |
| 177.5° | 7.1 | 9.4   | 9.4   | 9.4   | 4.7   |
| 180°   | 4.7 | 4.7   | 4.7   | 4.7   | 4.7   |

(END OF REPORT)