

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: P567613

Luminaire Tested: **8SNX-180HL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567613  
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-180HL-LW-UNV-L850-CD  
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

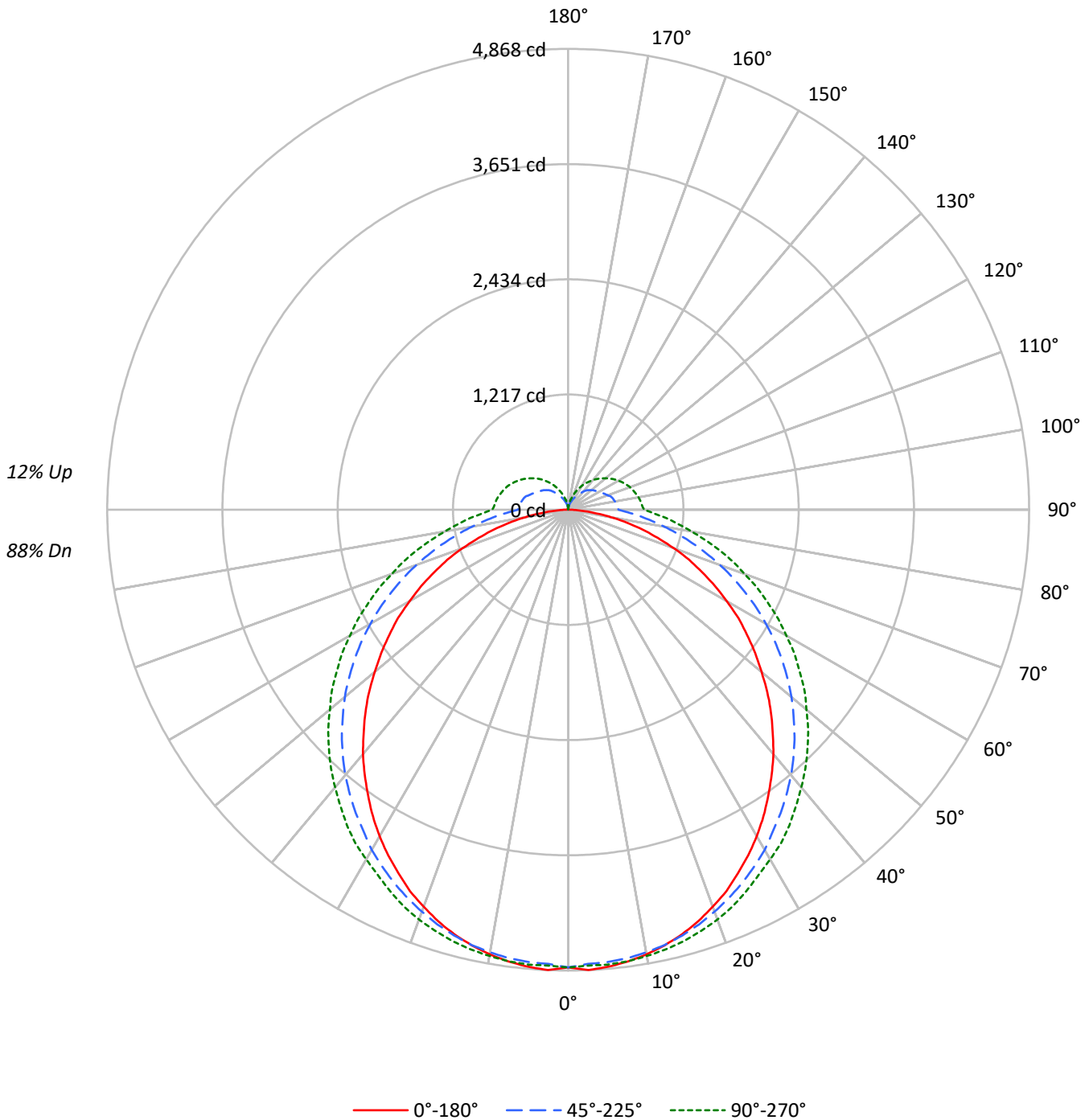
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17406.0 lumens  
Efficiency: N/A  
Efficacy: 135.1 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): 128.8  
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°  | 26020 | 26020 | 26020 |
| 5°  | 26136 | 24853 | 24619 |
| 10° | 25968 | 23901 | 23409 |
| 15° | 25731 | 22952 | 22306 |
| 20° | 25364 | 21990 | 21239 |
| 25° | 24928 | 21053 | 20146 |
| 30° | 24453 | 20134 | 19140 |
| 35° | 23858 | 19169 | 18238 |
| 40° | 23278 | 18265 | 17256 |
| 45° | 22579 | 17311 | 16321 |
| 50° | 21771 | 16324 | 15326 |
| 55° | 20995 | 15236 | 14342 |
| 60° | 20098 | 14091 | 13282 |
| 65° | 19003 | 12842 | 12186 |
| 70° | 17612 | 11487 | 10998 |
| 75° | 15644 | 9998  | 9862  |
| 80° | 12889 | 8508  | 8560  |
| 85° | 8918  | 7074  | 7473  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 459.0   | 2.6       |
| 10°-20°   | 1320.3  | 7.6       |
| 20°-30°   | 2008.5  | 11.5      |
| 30°-40°   | 2442.2  | 14.0      |
| 40°-50°   | 2583.8  | 14.8      |
| 50°-60°   | 2421.9  | 13.9      |
| 60°-70°   | 1992.5  | 11.4      |
| 70°-80°   | 1378.6  | 7.9       |
| 80°-90°   | 766.6   | 4.4       |
| 90°-100°  | 505.0   | 2.9       |
| 100°-110° | 452.9   | 2.6       |
| 110°-120° | 374.9   | 2.2       |
| 120°-130° | 289.8   | 1.7       |
| 130°-140° | 205.1   | 1.2       |
| 140°-150° | 123.7   | 0.7       |
| 150°-160° | 59.4    | 0.3       |
| 160°-170° | 19.5    | 0.1       |
| 170°-180° | 2.4     | 0.0       |
| 0°-30°    | 3787.8  | 21.8      |
| 0°-40°    | 6230.0  | 35.8      |
| 0°-60°    | 11235.7 | 64.6      |
| 0°-90°    | 15373.3 | 88.3      |
| 90°-120°  | 1332.8  | 7.7       |
| 90°-150°  | 1951.4  | 11.2      |
| 90°-180°  | 2033.0  | 11.7      |
| 0°-180°   | 17406.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 4835 | 4835  | 4835 | 4835  | 4835 |      |
| 5°   | 4847 | 4838  | 4796 | 4835  | 4823 | 460  |
| 15°  | 4644 | 4659  | 4656 | 4718  | 4718 | 1309 |
| 25°  | 4239 | 4298  | 4349 | 4444  | 4447 | 1954 |
| 35°  | 3684 | 3782  | 3911 | 4036  | 4072 | 2306 |
| 45°  | 3028 | 3186  | 3380 | 3532  | 3574 | 2334 |
| 55°  | 2304 | 2510  | 2751 | 2924  | 2984 | 2063 |
| 65°  | 1559 | 1782  | 2060 | 2262  | 2325 | 1546 |
| 75°  | 811  | 1046  | 1353 | 1568  | 1654 | 860  |
| 85°  | 179  | 444   | 751  | 960   | 1043 | 206  |
| 90°  | 3    | 250   | 531  | 730   | 802  | 12   |
| 95°  | 3    | 238   | 516  | 706   | 775  | 2    |
| 105° | 3    | 206   | 483  | 665   | 724  | 3    |
| 115° | 6    | 179   | 408  | 590   | 656  | 5    |
| 125° | 6    | 152   | 349  | 504   | 566  | 5    |
| 135° | 6    | 119   | 292  | 414   | 465  | 5    |
| 145° | 6    | 86    | 203  | 313   | 352  | 4    |
| 155° | 9    | 60    | 125  | 200   | 232  | 4    |
| 165° | 9    | 39    | 69   | 92    | 119  | 3    |
| 175° | 9    | 15    | 21   | 21    | 12   | 1    |
| 180° | 6    | 6     | 6    | 6     | 6    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 4834.7 | 4834.7 | 4834.7 | 4834.7 | 4834.7 |
| 2.5°   | 4867.5 | 4852.6 | 4801.9 | 4834.7 | 4819.8 |
| 5°     | 4846.6 | 4837.7 | 4796.0 | 4834.7 | 4822.8 |
| 7.5°   | 4813.8 | 4810.9 | 4778.1 | 4822.8 | 4810.9 |
| 10°    | 4769.1 | 4775.1 | 4748.3 | 4796.0 | 4787.0 |
| 12.5°  | 4712.5 | 4721.4 | 4709.5 | 4763.2 | 4757.2 |
| 15°    | 4643.9 | 4658.9 | 4655.9 | 4718.5 | 4718.5 |
| 17.5°  | 4560.5 | 4581.4 | 4593.3 | 4664.8 | 4664.8 |
| 20°    | 4462.1 | 4494.9 | 4518.8 | 4596.3 | 4608.2 |
| 22.5°  | 4363.8 | 4402.5 | 4438.3 | 4518.8 | 4536.6 |
| 25°    | 4238.6 | 4298.2 | 4348.9 | 4444.2 | 4447.2 |
| 27.5°  | 4116.4 | 4181.9 | 4250.5 | 4342.9 | 4351.8 |
| 30°    | 3982.2 | 4065.7 | 4149.2 | 4238.6 | 4265.4 |
| 32.5°  | 3839.2 | 3931.6 | 4024.0 | 4143.2 | 4179.0 |
| 35°    | 3684.2 | 3782.5 | 3910.7 | 4035.9 | 4071.7 |
| 37.5°  | 3529.2 | 3639.4 | 3788.5 | 3916.7 | 3949.4 |
| 40°    | 3371.2 | 3493.4 | 3660.3 | 3791.5 | 3830.2 |
| 42.5°  | 3195.3 | 3344.4 | 3523.2 | 3663.3 | 3708.0 |
| 45°    | 3028.4 | 3186.4 | 3380.1 | 3532.1 | 3573.9 |
| 47.5°  | 2852.5 | 3019.5 | 3228.1 | 3389.1 | 3436.8 |
| 50°    | 2664.8 | 2855.5 | 3079.1 | 3240.0 | 3284.7 |
| 52.5°  | 2488.9 | 2682.6 | 2918.1 | 3085.0 | 3147.6 |
| 55°    | 2304.1 | 2509.8 | 2751.2 | 2924.1 | 2983.7 |
| 57.5°  | 2131.2 | 2327.9 | 2587.3 | 2760.1 | 2834.7 |
| 60°    | 1934.5 | 2152.1 | 2411.4 | 2599.2 | 2658.8 |
| 62.5°  | 1749.7 | 1970.3 | 2238.5 | 2432.3 | 2500.8 |
| 65°    | 1558.9 | 1782.5 | 2059.7 | 2262.4 | 2325.0 |
| 67.5°  | 1380.1 | 1600.6 | 1883.8 | 2083.5 | 2164.0 |
| 70°    | 1183.3 | 1415.8 | 1705.0 | 1910.6 | 1979.2 |
| 72.5°  | 989.6  | 1231.0 | 1526.1 | 1746.7 | 1824.2 |
| 75°    | 810.8  | 1046.2 | 1353.2 | 1567.9 | 1654.3 |
| 77.5°  | 637.9  | 876.3  | 1186.3 | 1406.9 | 1481.4 |
| 80°    | 465.0  | 715.4  | 1031.3 | 1248.9 | 1320.5 |
| 82.5°  | 307.0  | 569.3  | 882.3  | 1099.9 | 1177.4 |
| 85°    | 178.8  | 444.1  | 751.1  | 959.8  | 1043.2 |
| 87.5°  | 77.5   | 336.8  | 628.9  | 834.6  | 903.2  |
| 90°    | 3.0    | 250.4  | 530.6  | 730.3  | 801.8  |
| 92.5°  | 3.0    | 244.4  | 518.6  | 715.4  | 783.9  |
| 95°    | 3.0    | 238.5  | 515.7  | 706.4  | 775.0  |
| 97.5°  | 3.0    | 235.5  | 509.7  | 700.5  | 766.0  |
| 100°   | 3.0    | 226.5  | 500.8  | 688.5  | 754.1  |
| 102.5° | 3.0    | 214.6  | 491.8  | 676.6  | 739.2  |
| 105°   | 3.0    | 205.7  | 482.9  | 664.7  | 724.3  |
| 107.5° | 3.0    | 196.7  | 468.0  | 649.8  | 709.4  |
| 110°   | 3.0    | 187.8  | 444.1  | 634.9  | 694.5  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 3.0 | 184.8 | 426.2 | 614.0 | 676.6 |
| 115°   | 6.0 | 178.8 | 408.4 | 590.2 | 655.8 |
| 117.5° | 6.0 | 175.9 | 393.5 | 566.3 | 634.9 |
| 120°   | 6.0 | 166.9 | 378.6 | 545.5 | 611.0 |
| 122.5° | 6.0 | 158.0 | 363.6 | 524.6 | 590.2 |
| 125°   | 6.0 | 152.0 | 348.7 | 503.7 | 566.3 |
| 127.5° | 6.0 | 143.1 | 336.8 | 482.9 | 539.5 |
| 130°   | 6.0 | 137.1 | 321.9 | 459.0 | 515.7 |
| 132.5° | 6.0 | 128.2 | 307.0 | 435.2 | 488.8 |
| 135°   | 6.0 | 119.2 | 292.1 | 414.3 | 465.0 |
| 137.5° | 6.0 | 107.3 | 274.2 | 390.5 | 438.2 |
| 140°   | 6.0 | 98.4  | 250.4 | 366.6 | 411.3 |
| 142.5° | 6.0 | 92.4  | 226.5 | 339.8 | 381.5 |
| 145°   | 6.0 | 86.4  | 202.7 | 313.0 | 351.7 |
| 147.5° | 6.0 | 80.5  | 181.8 | 286.1 | 321.9 |
| 150°   | 6.0 | 71.5  | 161.0 | 262.3 | 292.1 |
| 152.5° | 8.9 | 65.6  | 143.1 | 232.5 | 262.3 |
| 155°   | 8.9 | 59.6  | 125.2 | 199.7 | 232.5 |
| 157.5° | 8.9 | 53.7  | 107.3 | 166.9 | 202.7 |
| 160°   | 8.9 | 47.7  | 92.4  | 137.1 | 172.9 |
| 162.5° | 8.9 | 44.7  | 80.5  | 113.3 | 146.1 |
| 165°   | 8.9 | 38.7  | 68.6  | 92.4  | 119.2 |
| 167.5° | 8.9 | 29.8  | 56.6  | 71.5  | 98.4  |
| 170°   | 8.9 | 23.8  | 44.7  | 50.7  | 74.5  |
| 172.5° | 8.9 | 17.9  | 32.8  | 35.8  | 38.7  |
| 175°   | 8.9 | 14.9  | 20.9  | 20.9  | 11.9  |
| 177.5° | 8.9 | 11.9  | 11.9  | 11.9  | 6.0   |
| 180°   | 6.0 | 6.0   | 6.0   | 6.0   | 6.0   |

(END OF REPORT)