

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: P567608

Luminaire Tested: **8SNX-180HL-LN-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567608  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-180HL-LN-UNV-L940-CD  
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

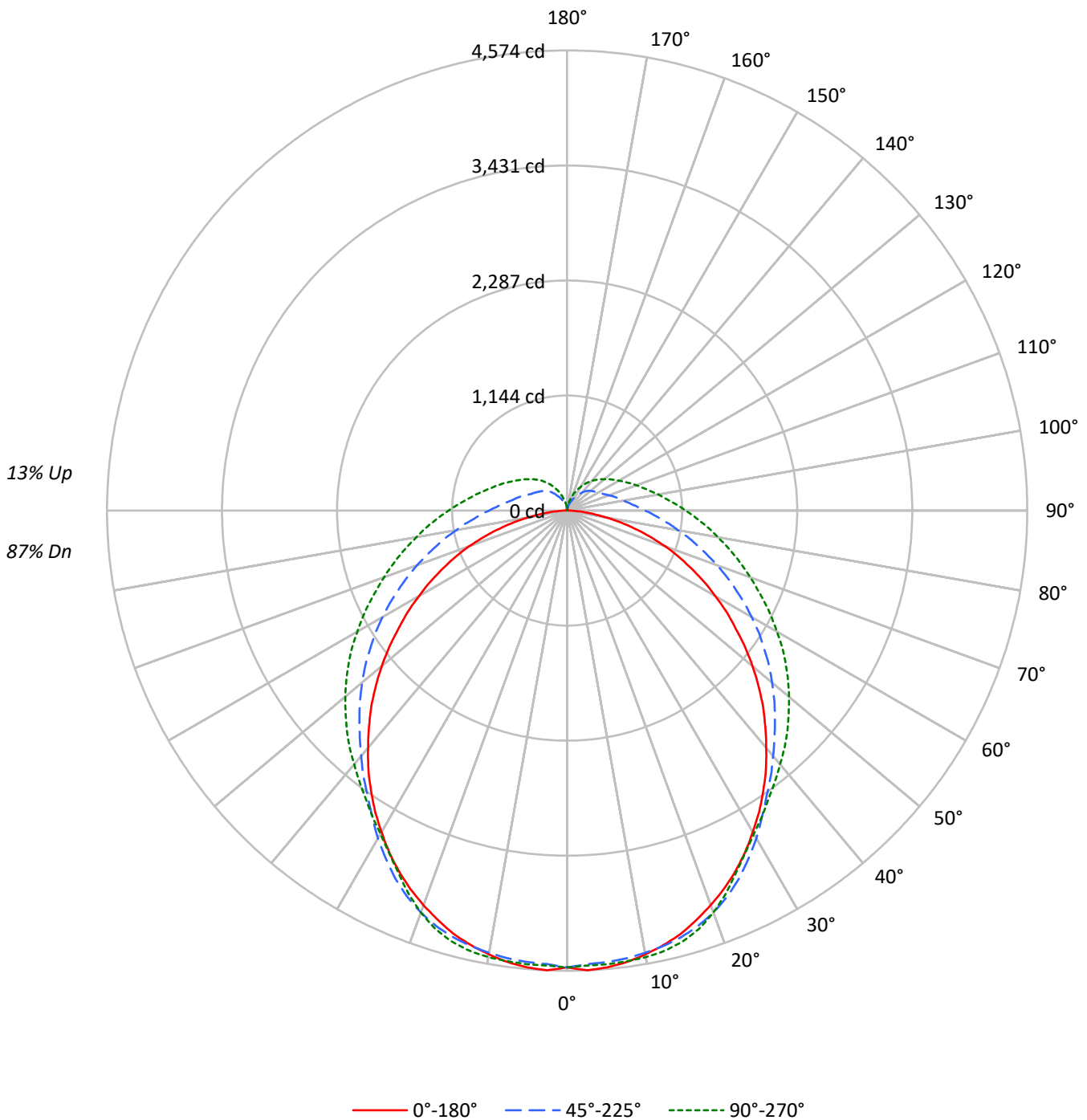
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16391.0 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
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 | 104 | 104 | 104 | 96 | 96 | 96 | 90 | 90 | 90 | 87 |
| 1   | 104 | 98  | 93  | 89  | 100 | 95  | 90  | 86  | 88  | 84  | 81  | 82 | 79 | 76 | 76 | 74 | 72 | 68 |
| 2   | 94  | 85  | 77  | 71  | 90  | 82  | 75  | 69  | 76  | 70  | 66  | 71 | 66 | 62 | 66 | 62 | 59 | 56 |
| 3   | 85  | 74  | 65  | 58  | 81  | 71  | 63  | 57  | 66  | 60  | 54  | 62 | 56 | 52 | 58 | 53 | 49 | 46 |
| 4   | 78  | 65  | 56  | 49  | 74  | 63  | 55  | 48  | 59  | 52  | 46  | 55 | 49 | 44 | 51 | 46 | 42 | 39 |
| 5   | 71  | 58  | 49  | 42  | 68  | 56  | 48  | 41  | 53  | 45  | 40  | 49 | 43 | 38 | 46 | 41 | 36 | 34 |
| 6   | 66  | 52  | 43  | 37  | 63  | 51  | 42  | 36  | 47  | 40  | 35  | 44 | 38 | 33 | 42 | 36 | 32 | 29 |
| 7   | 61  | 47  | 38  | 32  | 58  | 46  | 38  | 32  | 43  | 36  | 30  | 41 | 34 | 29 | 38 | 33 | 28 | 26 |
| 8   | 57  | 43  | 35  | 29  | 54  | 42  | 34  | 28  | 39  | 32  | 27  | 37 | 31 | 26 | 35 | 29 | 25 | 23 |
| 9   | 53  | 39  | 31  | 26  | 51  | 38  | 31  | 25  | 36  | 29  | 24  | 34 | 28 | 24 | 32 | 27 | 23 | 21 |
| 10  | 50  | 36  | 28  | 23  | 48  | 35  | 28  | 23  | 34  | 27  | 22  | 32 | 26 | 21 | 30 | 25 | 21 | 19 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 24437 | 24437 | 24437 |
| 5°  | 24576 | 23343 | 23108 |
| 10° | 24391 | 22464 | 22041 |
| 15° | 24143 | 21630 | 20966 |
| 20° | 23725 | 20690 | 19596 |
| 25° | 23272 | 19546 | 17989 |
| 30° | 22661 | 18258 | 16647 |
| 35° | 22008 | 16944 | 15646 |
| 40° | 21260 | 15891 | 14836 |
| 45° | 20532 | 14958 | 14137 |
| 50° | 19661 | 14098 | 13432 |
| 55° | 18636 | 13235 | 12742 |
| 60° | 17668 | 12374 | 12022 |
| 65° | 16598 | 11504 | 11361 |
| 70° | 15385 | 10690 | 10763 |
| 75° | 13458 | 9896  | 10271 |
| 80° | 10938 | 9215  | 9854  |
| 85° | 7900  | 8741  | 9615  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 431.3   | 2.6       |
| 10°-20°   | 1240.2  | 7.6       |
| 20°-30°   | 1846.7  | 11.3      |
| 30°-40°   | 2179.1  | 13.3      |
| 40°-50°   | 2272.5  | 13.9      |
| 50°-60°   | 2135.6  | 13.0      |
| 60°-70°   | 1803.5  | 11.0      |
| 70°-80°   | 1362.7  | 8.3       |
| 80°-90°   | 939.3   | 5.7       |
| 90°-100°  | 657.3   | 4.0       |
| 100°-110° | 490.5   | 3.0       |
| 110°-120° | 369.8   | 2.3       |
| 120°-130° | 275.8   | 1.7       |
| 130°-140° | 193.6   | 1.2       |
| 140°-150° | 117.0   | 0.7       |
| 150°-160° | 56.0    | 0.3       |
| 160°-170° | 17.9    | 0.1       |
| 170°-180° | 2.1     | 0.0       |
| 0°-30°    | 3518.3  | 21.5      |
| 0°-40°    | 5697.3  | 34.8      |
| 0°-60°    | 10105.4 | 61.7      |
| 0°-90°    | 14210.9 | 86.7      |
| 90°-120°  | 1517.7  | 9.3       |
| 90°-150°  | 2104.1  | 12.8      |
| 90°-180°  | 2180.0  | 13.3      |
| 0°-180°   | 16391.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 4541 | 4541  | 4541 | 4541  | 4541 |      |
| 5°   | 4557 | 4549  | 4504 | 4538  | 4527 | 432  |
| 15°  | 4357 | 4377  | 4388 | 4443  | 4435 | 1227 |
| 25°  | 3957 | 4038  | 4038 | 4002  | 3971 | 1821 |
| 35°  | 3398 | 3524  | 3457 | 3485  | 3493 | 2125 |
| 45°  | 2754 | 2890  | 2921 | 3040  | 3096 | 2121 |
| 55°  | 2045 | 2220  | 2390 | 2582  | 2651 | 1835 |
| 65°  | 1362 | 1578  | 1845 | 2087  | 2168 | 1352 |
| 75°  | 698  | 967   | 1339 | 1620  | 1723 | 743  |
| 85°  | 158  | 497   | 928  | 1234  | 1342 | 178  |
| 90°  | 3    | 353   | 775  | 1073  | 1178 | 11   |
| 95°  | 3    | 275   | 656  | 939   | 1036 | 2    |
| 105° | 6    | 197   | 506  | 734   | 817  | 6    |
| 115° | 6    | 170   | 392  | 584   | 659  | 6    |
| 125° | 8    | 144   | 331  | 478   | 539  | 7    |
| 135° | 8    | 111   | 275  | 389   | 436  | 6    |
| 145° | 11   | 81    | 192  | 297   | 334  | 6    |
| 155° | 11   | 53    | 117  | 189   | 220  | 5    |
| 165° | 14   | 33    | 61   | 83    | 111  | 4    |
| 175° | 14   | 14    | 17   | 17    | 8    | 1    |
| 180° | 8    | 8     | 8    | 8     | 8    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 4540.6 | 4540.6 | 4540.6 | 4540.6 | 4540.6 |
| 2.5°   | 4574.0 | 4562.8 | 4512.8 | 4540.6 | 4526.7 |
| 5°     | 4557.3 | 4548.9 | 4504.5 | 4537.8 | 4526.7 |
| 7.5°   | 4526.7 | 4523.9 | 4490.6 | 4529.5 | 4518.4 |
| 10°    | 4479.5 | 4487.8 | 4462.8 | 4515.6 | 4507.3 |
| 12.5°  | 4423.9 | 4440.6 | 4432.2 | 4490.6 | 4482.3 |
| 15°    | 4357.2 | 4376.7 | 4387.8 | 4443.4 | 4435.0 |
| 17.5°  | 4268.3 | 4304.4 | 4329.4 | 4373.9 | 4360.0 |
| 20°    | 4173.8 | 4223.8 | 4251.6 | 4273.8 | 4251.6 |
| 22.5°  | 4071.0 | 4137.7 | 4154.4 | 4143.2 | 4121.0 |
| 25°    | 3957.1 | 4037.6 | 4037.6 | 4001.5 | 3971.0 |
| 27.5°  | 3829.2 | 3929.3 | 3901.5 | 3859.8 | 3834.8 |
| 30°    | 3690.3 | 3809.8 | 3762.5 | 3715.3 | 3709.7 |
| 32.5°  | 3551.3 | 3676.4 | 3606.9 | 3595.8 | 3604.1 |
| 35°    | 3398.5 | 3523.6 | 3456.9 | 3484.7 | 3493.0 |
| 37.5°  | 3245.7 | 3370.7 | 3326.3 | 3367.9 | 3393.0 |
| 40°    | 3078.9 | 3212.3 | 3184.5 | 3259.6 | 3292.9 |
| 42.5°  | 2915.0 | 3053.9 | 3051.2 | 3148.4 | 3198.4 |
| 45°    | 2753.8 | 2890.0 | 2920.6 | 3040.0 | 3095.6 |
| 47.5°  | 2578.8 | 2717.7 | 2792.7 | 2931.7 | 2987.2 |
| 50°    | 2406.5 | 2556.5 | 2659.3 | 2815.0 | 2878.9 |
| 52.5°  | 2228.6 | 2387.0 | 2528.7 | 2701.0 | 2767.7 |
| 55°    | 2045.2 | 2220.3 | 2389.8 | 2581.5 | 2651.0 |
| 57.5°  | 1881.3 | 2059.1 | 2259.2 | 2456.5 | 2537.1 |
| 60°    | 1700.6 | 1897.9 | 2117.5 | 2325.9 | 2406.5 |
| 62.5°  | 1536.7 | 1739.5 | 1984.1 | 2203.6 | 2289.8 |
| 65°    | 1361.6 | 1578.4 | 1845.1 | 2086.9 | 2167.5 |
| 67.5°  | 1200.5 | 1422.8 | 1714.5 | 1959.1 | 2048.0 |
| 70°    | 1033.7 | 1269.9 | 1586.7 | 1845.1 | 1936.8 |
| 72.5°  | 861.4  | 1111.5 | 1458.9 | 1734.0 | 1828.5 |
| 75°    | 697.5  | 967.0  | 1339.4 | 1620.1 | 1722.9 |
| 77.5°  | 544.7  | 828.1  | 1231.0 | 1520.0 | 1620.1 |
| 80°    | 394.6  | 703.0  | 1117.1 | 1417.2 | 1520.0 |
| 82.5°  | 261.2  | 594.7  | 1025.4 | 1325.5 | 1433.9 |
| 85°    | 158.4  | 497.4  | 928.1  | 1233.8 | 1342.2 |
| 87.5°  | 72.2   | 416.8  | 850.3  | 1153.2 | 1258.8 |
| 90°    | 2.8    | 352.9  | 775.3  | 1072.6 | 1178.2 |
| 92.5°  | 2.8    | 308.5  | 714.2  | 1003.2 | 1106.0 |
| 95°    | 2.8    | 275.1  | 655.8  | 939.2  | 1036.5 |
| 97.5°  | 2.8    | 252.9  | 611.3  | 878.1  | 972.6  |
| 100°   | 2.8    | 230.6  | 566.9  | 822.5  | 919.8  |
| 102.5° | 5.6    | 211.2  | 533.5  | 772.5  | 864.2  |
| 105°   | 5.6    | 197.3  | 505.7  | 733.6  | 817.0  |
| 107.5° | 5.6    | 189.0  | 475.2  | 694.7  | 772.5  |
| 110°   | 5.6    | 180.6  | 441.8  | 655.8  | 733.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45°   | 67.5° | 90°   |
|--------|------|-------|-------|-------|-------|
| 112.5° | 5.6  | 175.1 | 416.8 | 622.5 | 697.5 |
| 115°   | 5.6  | 169.5 | 391.8 | 583.6 | 658.6 |
| 117.5° | 5.6  | 166.7 | 377.9 | 553.0 | 625.2 |
| 120°   | 8.3  | 158.4 | 361.2 | 525.2 | 594.7 |
| 122.5° | 8.3  | 150.1 | 344.6 | 503.0 | 564.1 |
| 125°   | 8.3  | 144.5 | 330.7 | 478.0 | 539.1 |
| 127.5° | 8.3  | 136.2 | 316.8 | 455.7 | 511.3 |
| 130°   | 8.3  | 127.8 | 305.7 | 433.5 | 486.3 |
| 132.5° | 8.3  | 119.5 | 291.8 | 411.3 | 461.3 |
| 135°   | 8.3  | 111.2 | 275.1 | 389.0 | 436.3 |
| 137.5° | 8.3  | 102.8 | 258.4 | 366.8 | 411.3 |
| 140°   | 8.3  | 94.5  | 236.2 | 344.6 | 386.3 |
| 142.5° | 8.3  | 86.1  | 214.0 | 322.3 | 358.5 |
| 145°   | 11.1 | 80.6  | 191.7 | 297.3 | 333.5 |
| 147.5° | 11.1 | 72.2  | 169.5 | 272.3 | 302.9 |
| 150°   | 11.1 | 66.7  | 152.8 | 247.3 | 275.1 |
| 152.5° | 11.1 | 58.4  | 136.2 | 219.5 | 247.3 |
| 155°   | 11.1 | 52.8  | 116.7 | 189.0 | 219.5 |
| 157.5° | 11.1 | 47.2  | 100.0 | 158.4 | 191.7 |
| 160°   | 11.1 | 44.5  | 86.1  | 130.6 | 164.0 |
| 162.5° | 13.9 | 38.9  | 72.2  | 105.6 | 136.2 |
| 165°   | 13.9 | 33.3  | 61.1  | 83.4  | 111.2 |
| 167.5° | 13.9 | 27.8  | 50.0  | 63.9  | 86.1  |
| 170°   | 13.9 | 22.2  | 38.9  | 44.5  | 66.7  |
| 172.5° | 13.9 | 16.7  | 27.8  | 30.6  | 33.3  |
| 175°   | 13.9 | 13.9  | 16.7  | 16.7  | 8.3   |
| 177.5° | 13.9 | 13.9  | 11.1  | 8.3   | 2.8   |
| 180°   | 8.3  | 8.3   | 8.3   | 8.3   | 8.3   |

(END OF REPORT)