

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: P565508

Luminaire Tested: **2SNX-19SL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNX-19SL-LC-UNV-L840-CD
Description: 2FT 1900 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

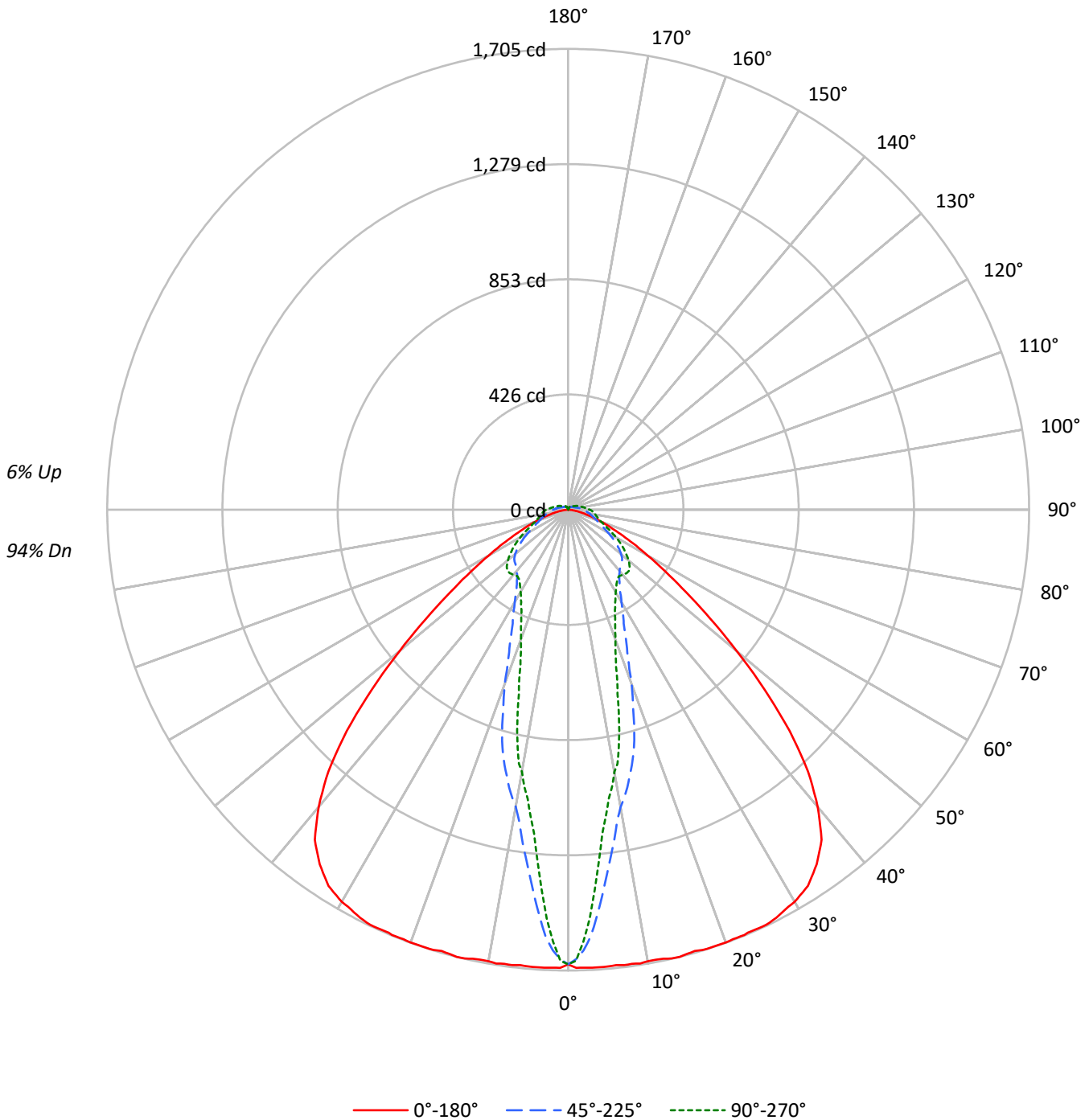
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2073.0 lumens
Efficiency: N/A
Efficacy: 172.7 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 12
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

TEST NUMBER: P565508
CATALOG NUMBER: 2SNX-19SL-LC-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P565508

CATALOG NUMBER: 2SNX-19SL-LC-UNV-L840-CD

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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 | 94 | | | | | | 94 | | |
| 1 | 108 | 103 | 99 | 96 | 105 | 101 | 97 | 94 | 95 | 92 | 90 | 90 | 88 | 86 | 86 | 84 | 82 | 80 | | | | | | 80 | | |
| 2 | 99 | 92 | 86 | 80 | 96 | 89 | 84 | 79 | 85 | 80 | 76 | 81 | 77 | 74 | 77 | 74 | 71 | 69 | | | | | | 69 | | |
| 3 | 92 | 82 | 75 | 69 | 89 | 80 | 73 | 68 | 76 | 71 | 66 | 73 | 68 | 64 | 70 | 66 | 62 | 60 | | | | | | 60 | | |
| 4 | 85 | 74 | 66 | 60 | 82 | 72 | 65 | 59 | 69 | 63 | 58 | 66 | 61 | 56 | 63 | 59 | 55 | 53 | | | | | | 53 | | |
| 5 | 79 | 67 | 59 | 53 | 76 | 66 | 58 | 52 | 63 | 56 | 51 | 60 | 55 | 50 | 58 | 53 | 49 | 47 | | | | | | 47 | | |
| 6 | 73 | 61 | 53 | 47 | 71 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 45 | 53 | 48 | 44 | 42 | | | | | | 42 | | |
| 7 | 69 | 56 | 48 | 43 | 67 | 55 | 48 | 42 | 53 | 46 | 42 | 51 | 45 | 41 | 50 | 44 | 40 | 38 | | | | | | 38 | | |
| 8 | 64 | 52 | 44 | 39 | 63 | 51 | 44 | 39 | 49 | 43 | 38 | 48 | 42 | 37 | 46 | 41 | 37 | 35 | | | | | | 35 | | |
| 9 | 61 | 48 | 41 | 36 | 59 | 47 | 40 | 35 | 46 | 39 | 35 | 44 | 39 | 34 | 43 | 38 | 34 | 32 | | | | | | 32 | | |
| 10 | 57 | 45 | 38 | 33 | 56 | 44 | 37 | 33 | 43 | 37 | 32 | 42 | 36 | 32 | 40 | 35 | 31 | 30 | | | | | | 30 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 36203 | 36203 | 36203 |
| 5° | 36398 | 29662 | 26616 |
| 10° | 36550 | 22341 | 19263 |
| 15° | 37078 | 18222 | 13339 |
| 20° | 37888 | 13158 | 9421 |
| 25° | 38914 | 9408 | 7411 |
| 30° | 39733 | 7500 | 6311 |
| 35° | 39780 | 6332 | 5653 |
| 40° | 37726 | 5743 | 5668 |
| 45° | 32543 | 5537 | 5822 |
| 50° | 24793 | 5253 | 5433 |
| 55° | 17817 | 4583 | 4820 |
| 60° | 12792 | 3815 | 4076 |
| 65° | 9183 | 3215 | 3342 |
| 70° | 6638 | 2831 | 2881 |
| 75° | 4581 | 2610 | 2685 |
| 80° | 2862 | 2431 | 2645 |
| 85° | 1214 | 2305 | 2648 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 132.3 | 6.4 |
| 10°-20° | 287.2 | 13.9 |
| 20°-30° | 328.7 | 15.9 |
| 30°-40° | 329.3 | 15.9 |
| 40°-50° | 311.7 | 15.0 |
| 50°-60° | 239.1 | 11.5 |
| 60°-70° | 154.1 | 7.4 |
| 70°-80° | 98.3 | 4.7 |
| 80°-90° | 65.3 | 3.1 |
| 90°-100° | 43.9 | 2.1 |
| 100°-110° | 28.9 | 1.4 |
| 110°-120° | 20.1 | 1.0 |
| 120°-130° | 14.0 | 0.7 |
| 130°-140° | 9.7 | 0.5 |
| 140°-150° | 6.0 | 0.3 |
| 150°-160° | 3.0 | 0.1 |
| 160°-170° | 1.2 | 0.1 |
| 170°-180° | 0.2 | 0.0 |
| 0°-30° | 748.2 | 36.1 |
| 0°-40° | 1077.5 | 52.0 |
| 0°-60° | 1628.3 | 78.6 |
| 0°-90° | 1946.0 | 93.9 |
| 90°-120° | 92.9 | 4.5 |
| 90°-150° | 122.6 | 5.9 |
| 90°-180° | 127.0 | 6.1 |
| 0°-180° | 2073.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1682 | 1682 | 1682 | 1682 | 1682 | |
| 5° | 1697 | 1603 | 1436 | 1340 | 1304 | 162 |
| 15° | 1701 | 1225 | 934 | 767 | 705 | 482 |
| 25° | 1702 | 867 | 494 | 429 | 409 | 785 |
| 35° | 1602 | 482 | 330 | 320 | 316 | 994 |
| 45° | 1158 | 305 | 278 | 308 | 319 | 880 |
| 55° | 531 | 218 | 215 | 241 | 251 | 488 |
| 65° | 212 | 137 | 135 | 154 | 159 | 219 |
| 75° | 72 | 74 | 94 | 107 | 113 | 79 |
| 85° | 10 | 34 | 66 | 86 | 92 | 13 |
| 90° | 0 | 23 | 55 | 76 | 80 | 0 |
| 95° | 0 | 17 | 46 | 63 | 66 | 0 |
| 105° | 0 | 13 | 30 | 42 | 46 | 1 |
| 115° | 1 | 11 | 22 | 31 | 33 | 1 |
| 125° | 1 | 10 | 19 | 22 | 23 | 1 |
| 135° | 1 | 7 | 15 | 18 | 19 | 1 |
| 145° | 1 | 5 | 11 | 14 | 15 | 1 |
| 155° | 1 | 3 | 6 | 10 | 11 | 1 |
| 165° | 2 | 2 | 4 | 5 | 6 | 1 |
| 175° | 2 | 2 | 2 | 2 | 1 | 0 |
| 180° | 2 | 2 | 2 | 2 | 2 | |



TEST NUMBER: P565508

CATALOG NUMBER: 2SNX-19SL-LC-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1681.7 | 1681.7 | 1681.7 | 1681.7 | 1681.7 |
| 1° | 1695.5 | 1686.0 | 1663.7 | 1670.0 | 1669.0 |
| 2° | 1695.5 | 1675.3 | 1631.8 | 1619.0 | 1599.9 |
| 3° | 1696.6 | 1657.3 | 1582.9 | 1541.5 | 1514.9 |
| 4° | 1696.6 | 1630.7 | 1510.7 | 1441.6 | 1407.6 |
| 5° | 1696.6 | 1603.1 | 1436.3 | 1339.6 | 1303.5 |
| 6° | 1694.5 | 1570.2 | 1360.9 | 1258.9 | 1204.7 |
| 7° | 1697.7 | 1534.0 | 1292.9 | 1183.5 | 1141.0 |
| 8° | 1696.6 | 1491.6 | 1230.2 | 1126.1 | 1079.4 |
| 9° | 1699.8 | 1450.1 | 1162.2 | 1071.9 | 1036.9 |
| 10° | 1696.6 | 1411.9 | 1117.6 | 1020.9 | 984.8 |
| 11° | 1696.6 | 1374.7 | 1085.7 | 988.0 | 957.2 |
| 12° | 1698.7 | 1332.2 | 1050.7 | 941.3 | 898.8 |
| 13° | 1704.0 | 1288.6 | 1010.3 | 890.3 | 840.3 |
| 14° | 1705.1 | 1255.7 | 973.1 | 825.5 | 773.4 |
| 15° | 1700.8 | 1224.9 | 933.8 | 767.0 | 705.4 |
| 16° | 1698.7 | 1193.0 | 887.1 | 711.8 | 656.5 |
| 17° | 1703.0 | 1155.8 | 834.0 | 655.5 | 604.5 |
| 18° | 1704.0 | 1121.9 | 777.6 | 613.0 | 568.4 |
| 19° | 1704.0 | 1095.3 | 732.0 | 573.7 | 535.4 |
| 20° | 1704.0 | 1069.8 | 685.2 | 543.9 | 511.0 |
| 21° | 1701.9 | 1037.9 | 632.1 | 513.1 | 485.5 |
| 22.5° | 1703.0 | 978.4 | 571.6 | 477.0 | 454.7 |
| 23° | 1699.8 | 963.6 | 556.7 | 467.4 | 444.1 |
| 24° | 1700.8 | 921.1 | 524.8 | 448.3 | 426.0 |
| 25° | 1701.9 | 866.9 | 494.0 | 429.2 | 409.0 |
| 26° | 1699.8 | 823.3 | 468.5 | 411.1 | 397.3 |
| 27° | 1694.5 | 788.3 | 450.4 | 396.3 | 383.5 |
| 28° | 1687.0 | 741.5 | 431.3 | 383.5 | 371.8 |
| 29° | 1679.6 | 688.4 | 412.2 | 369.7 | 361.2 |
| 30° | 1675.3 | 645.9 | 394.1 | 359.1 | 351.6 |
| 32.5° | 1649.8 | 562.0 | 357.0 | 337.8 | 331.5 |
| 35° | 1602.0 | 482.3 | 330.4 | 319.8 | 315.5 |
| 37.5° | 1539.4 | 420.7 | 310.2 | 308.1 | 309.1 |
| 40° | 1436.3 | 371.8 | 295.3 | 304.9 | 314.5 |
| 42.5° | 1313.1 | 333.6 | 284.7 | 308.1 | 318.7 |
| 45° | 1158.0 | 304.9 | 278.3 | 308.1 | 318.7 |
| 47.5° | 985.9 | 281.5 | 270.9 | 297.5 | 308.1 |
| 50° | 813.8 | 260.3 | 256.0 | 281.5 | 291.1 |
| 52.5° | 661.9 | 240.1 | 236.9 | 261.3 | 270.9 |
| 55° | 531.2 | 217.8 | 214.6 | 241.2 | 250.7 |
| 57.5° | 426.0 | 196.5 | 193.3 | 217.8 | 227.3 |
| 60° | 340.0 | 175.3 | 170.0 | 194.4 | 204.0 |
| 62.5° | 270.9 | 155.1 | 151.9 | 173.2 | 181.7 |
| 65° | 212.5 | 137.0 | 134.9 | 154.0 | 159.4 |



TEST NUMBER: P565508

CATALOG NUMBER: 2SNX-19SL-LC-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 67.5° | 167.9 | 120.0 | 121.1 | 137.0 | 143.4 |
| 70° | 129.6 | 104.1 | 110.5 | 125.4 | 129.6 |
| 72.5° | 97.7 | 88.2 | 102.0 | 114.7 | 120.0 |
| 75° | 72.2 | 74.4 | 93.5 | 107.3 | 112.6 |
| 77.5° | 49.9 | 61.6 | 86.1 | 100.9 | 106.2 |
| 80° | 34.0 | 49.9 | 78.6 | 95.6 | 102.0 |
| 82.5° | 20.2 | 41.4 | 72.2 | 90.3 | 97.7 |
| 85° | 9.6 | 34.0 | 65.9 | 86.1 | 92.4 |
| 87.5° | 3.2 | 27.6 | 59.5 | 81.8 | 87.1 |
| 90° | 0.0 | 23.4 | 55.2 | 76.5 | 79.7 |
| 92.5° | 0.0 | 20.2 | 49.9 | 70.1 | 72.2 |
| 95° | 0.0 | 17.0 | 45.7 | 62.7 | 65.9 |
| 97.5° | 0.0 | 15.9 | 42.5 | 56.3 | 60.6 |
| 100° | 0.0 | 14.9 | 38.2 | 51.0 | 55.2 |
| 102.5° | 0.0 | 12.7 | 34.0 | 45.7 | 49.9 |
| 105° | 0.0 | 12.7 | 29.7 | 42.5 | 45.7 |
| 107.5° | 1.1 | 11.7 | 27.6 | 38.2 | 42.5 |
| 110° | 1.1 | 11.7 | 24.4 | 36.1 | 39.3 |
| 112.5° | 1.1 | 11.7 | 23.4 | 32.9 | 37.2 |
| 115° | 1.1 | 10.6 | 22.3 | 30.8 | 32.9 |
| 117.5° | 1.1 | 10.6 | 21.2 | 27.6 | 29.7 |
| 120° | 1.1 | 9.6 | 20.2 | 25.5 | 26.6 |
| 122.5° | 1.1 | 9.6 | 19.1 | 23.4 | 24.4 |
| 125° | 1.1 | 9.6 | 19.1 | 22.3 | 23.4 |
| 127.5° | 1.1 | 8.5 | 18.1 | 21.2 | 21.2 |
| 130° | 1.1 | 8.5 | 17.0 | 20.2 | 20.2 |
| 132.5° | 1.1 | 7.4 | 15.9 | 19.1 | 20.2 |
| 135° | 1.1 | 7.4 | 14.9 | 18.1 | 19.1 |
| 137.5° | 1.1 | 6.4 | 13.8 | 17.0 | 18.1 |
| 140° | 1.1 | 6.4 | 12.7 | 15.9 | 17.0 |
| 142.5° | 1.1 | 5.3 | 11.7 | 14.9 | 15.9 |
| 145° | 1.1 | 5.3 | 10.6 | 13.8 | 14.9 |
| 147.5° | 1.1 | 5.3 | 9.6 | 12.7 | 13.8 |
| 150° | 1.1 | 4.2 | 8.5 | 11.7 | 12.7 |
| 152.5° | 1.1 | 4.2 | 7.4 | 10.6 | 11.7 |
| 155° | 1.1 | 3.2 | 6.4 | 9.6 | 10.6 |
| 157.5° | 1.1 | 3.2 | 6.4 | 8.5 | 9.6 |
| 160° | 2.1 | 3.2 | 5.3 | 7.4 | 8.5 |
| 162.5° | 1.1 | 2.1 | 5.3 | 6.4 | 7.4 |
| 165° | 2.1 | 2.1 | 4.2 | 5.3 | 6.4 |
| 167.5° | 2.1 | 2.1 | 3.2 | 4.2 | 5.3 |
| 170° | 2.1 | 2.1 | 3.2 | 3.2 | 4.2 |
| 172.5° | 2.1 | 2.1 | 2.1 | 3.2 | 2.1 |
| 175° | 2.1 | 2.1 | 2.1 | 2.1 | 1.1 |
| 177.5° | 2.1 | 2.1 | 2.1 | 2.1 | 1.1 |



TEST NUMBER: P565508

CATALOG NUMBER: 2SNX-19SL-LC-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|------|-----|-------|-----|-------|-----|
| 180° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |

(END OF REPORT)