

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: P566633

Luminaire Tested: **4SNX-60SL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-60SL-LN-UNV-L850-CD
Description: 4FT 6000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

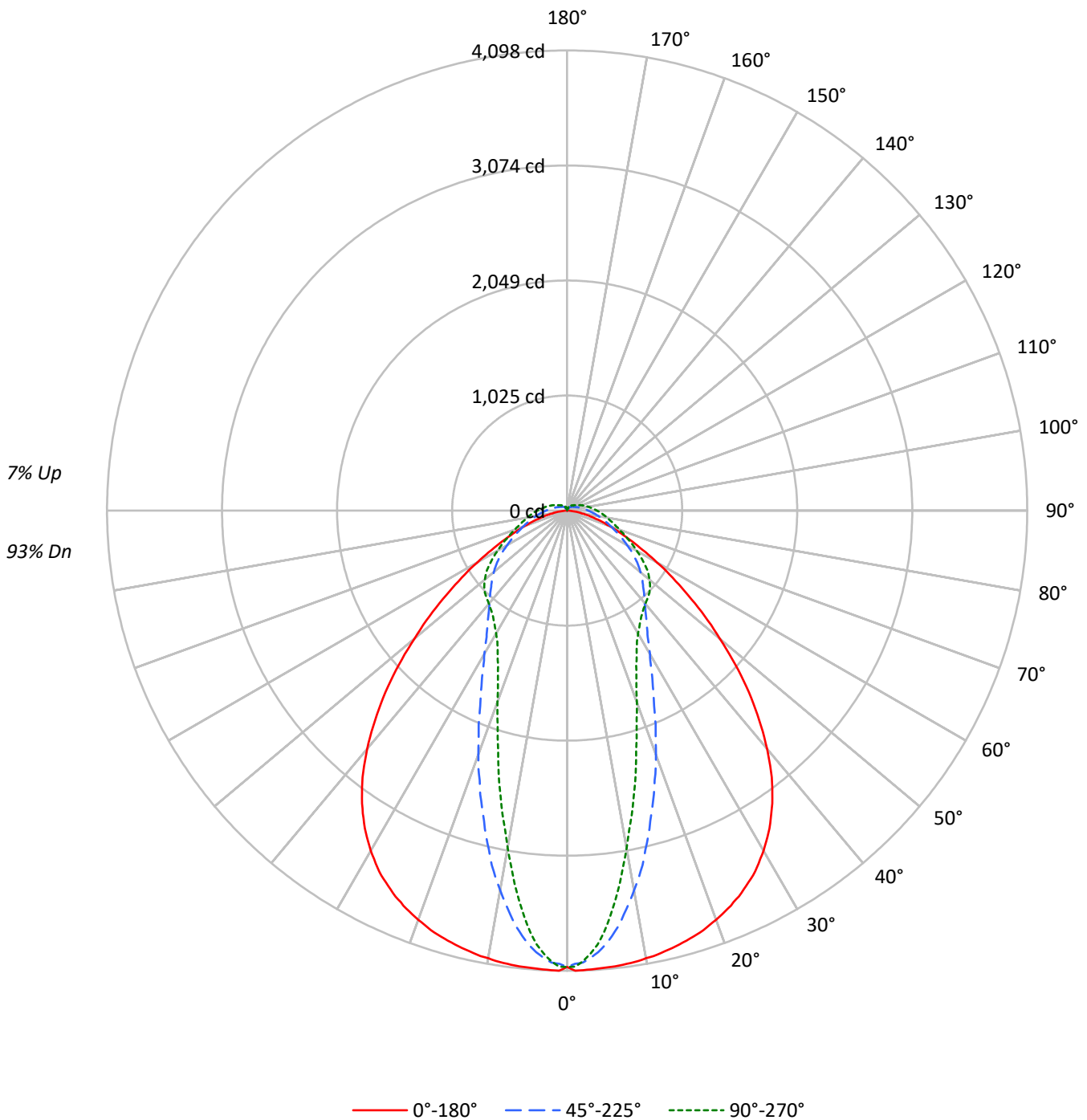
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6479.0 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 42
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: P566633
CATALOG NUMBER: 4SNX-60SL-LN-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566633

CATALOG NUMBER: 4SNX-60SL-LN-UNV-L850-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 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 96 | 96 | 96 | 93 | | | | |
| 1 | 107 | 103 | 99 | 95 | 104 | 100 | 96 | 93 | 94 | 91 | 88 | 89 | 87 | 85 | 85 | 83 | 81 | 78 | | | | |
| 2 | 99 | 91 | 84 | 79 | 95 | 88 | 82 | 77 | 84 | 79 | 75 | 79 | 75 | 72 | 76 | 72 | 69 | 67 | | | | |
| 3 | 91 | 81 | 73 | 67 | 88 | 79 | 72 | 66 | 75 | 69 | 64 | 71 | 66 | 62 | 68 | 64 | 60 | 58 | | | | |
| 4 | 84 | 73 | 64 | 58 | 81 | 71 | 63 | 57 | 67 | 61 | 56 | 64 | 59 | 54 | 62 | 57 | 53 | 51 | | | | |
| 5 | 78 | 66 | 57 | 51 | 75 | 64 | 56 | 51 | 61 | 55 | 49 | 59 | 53 | 48 | 56 | 51 | 47 | 45 | | | | |
| 6 | 72 | 60 | 51 | 45 | 70 | 59 | 51 | 45 | 56 | 49 | 44 | 54 | 48 | 43 | 52 | 46 | 42 | 40 | | | | |
| 7 | 67 | 55 | 47 | 41 | 65 | 54 | 46 | 41 | 52 | 45 | 40 | 50 | 44 | 39 | 48 | 42 | 38 | 36 | | | | |
| 8 | 63 | 51 | 43 | 37 | 61 | 50 | 42 | 37 | 48 | 41 | 36 | 46 | 40 | 36 | 44 | 39 | 35 | 33 | | | | |
| 9 | 59 | 47 | 39 | 34 | 58 | 46 | 39 | 34 | 44 | 38 | 33 | 43 | 37 | 33 | 41 | 36 | 32 | 30 | | | | |
| 10 | 56 | 44 | 36 | 31 | 54 | 43 | 36 | 31 | 41 | 35 | 31 | 40 | 34 | 30 | 39 | 34 | 30 | 28 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 43750 | 43750 | 43750 |
| 5° | 43976 | 40210 | 38481 |
| 10° | 43916 | 34477 | 29855 |
| 15° | 43895 | 28123 | 22376 |
| 20° | 43754 | 22404 | 16745 |
| 25° | 43357 | 17556 | 13290 |
| 30° | 42448 | 14208 | 11336 |
| 35° | 40665 | 12024 | 10312 |
| 40° | 37618 | 10615 | 9760 |
| 45° | 33445 | 9711 | 9459 |
| 50° | 28332 | 8937 | 8935 |
| 55° | 23276 | 8098 | 8161 |
| 60° | 18613 | 7124 | 7159 |
| 65° | 14449 | 6254 | 6229 |
| 70° | 11219 | 5532 | 5509 |
| 75° | 8678 | 4972 | 5020 |
| 80° | 6127 | 4548 | 4666 |
| 85° | 3405 | 4240 | 4476 |



TEST NUMBER: P566633

CATALOG NUMBER: 4SNX-60SL-LN-UNV-L850-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 359.9 | 5.6 |
| 10°-20° | 843.7 | 13.0 |
| 20°-30° | 1001.5 | 15.5 |
| 30°-40° | 1007.6 | 15.6 |
| 40°-50° | 936.6 | 14.5 |
| 50°-60° | 771.2 | 11.9 |
| 60°-70° | 543.4 | 8.4 |
| 70°-80° | 355.0 | 5.5 |
| 80°-90° | 226.7 | 3.5 |
| 90°-100° | 148.7 | 2.3 |
| 100°-110° | 100.9 | 1.6 |
| 110°-120° | 69.2 | 1.1 |
| 120°-130° | 47.9 | 0.7 |
| 130°-140° | 32.2 | 0.5 |
| 140°-150° | 19.8 | 0.3 |
| 150°-160° | 10.3 | 0.2 |
| 160°-170° | 3.7 | 0.1 |
| 170°-180° | 0.6 | 0.0 |
| 0°-30° | 2205.1 | 34.0 |
| 0°-40° | 3212.7 | 49.6 |
| 0°-60° | 4920.5 | 75.9 |
| 0°-90° | 6045.7 | 93.3 |
| 90°-120° | 318.8 | 4.9 |
| 90°-150° | 418.7 | 6.5 |
| 90°-180° | 433.0 | 6.7 |
| 0°-180° | 6479.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4064 | 4064 | 4064 | 4064 | 4064 | |
| 5° | 4085 | 4030 | 3884 | 3810 | 3769 | 389 |
| 15° | 3983 | 3558 | 2862 | 2502 | 2367 | 1125 |
| 25° | 3722 | 2750 | 1823 | 1531 | 1467 | 1713 |
| 35° | 3185 | 1861 | 1236 | 1158 | 1151 | 1981 |
| 45° | 2289 | 1226 | 958 | 1008 | 1036 | 1757 |
| 55° | 1314 | 805 | 740 | 822 | 849 | 1187 |
| 65° | 618 | 486 | 509 | 574 | 594 | 627 |
| 75° | 241 | 251 | 343 | 404 | 421 | 261 |
| 85° | 41 | 115 | 231 | 299 | 312 | 51 |
| 90° | 0 | 78 | 187 | 255 | 265 | 2 |
| 95° | 0 | 58 | 156 | 214 | 224 | 0 |
| 105° | 0 | 41 | 105 | 149 | 163 | 0 |
| 115° | 3 | 34 | 75 | 109 | 115 | 3 |
| 125° | 3 | 27 | 61 | 78 | 85 | 3 |
| 135° | 3 | 24 | 48 | 61 | 64 | 3 |
| 145° | 3 | 17 | 34 | 48 | 51 | 2 |
| 155° | 3 | 14 | 24 | 34 | 37 | 2 |
| 165° | 3 | 7 | 14 | 17 | 20 | 1 |
| 175° | 7 | 7 | 7 | 7 | 3 | 0 |
| 180° | 3 | 3 | 3 | 3 | 3 | |



TEST NUMBER: P566633

CATALOG NUMBER: 4SNX-60SL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4064.5 | 4064.5 | 4064.5 | 4064.5 | 4064.5 |
| 1° | 4098.4 | 4081.4 | 4037.3 | 4067.9 | 4061.1 |
| 2° | 4095.0 | 4078.1 | 4027.1 | 4040.7 | 4016.9 |
| 3° | 4091.6 | 4067.9 | 3989.8 | 3986.4 | 3952.4 |
| 4° | 4088.2 | 4050.9 | 3942.2 | 3901.5 | 3874.3 |
| 5° | 4084.8 | 4030.5 | 3884.5 | 3809.8 | 3769.1 |
| 6° | 4081.4 | 4006.7 | 3809.8 | 3697.8 | 3640.0 |
| 7° | 4074.7 | 3969.4 | 3731.7 | 3578.9 | 3504.2 |
| 8° | 4067.9 | 3935.4 | 3633.2 | 3449.9 | 3358.2 |
| 9° | 4061.1 | 3891.3 | 3534.8 | 3310.7 | 3202.0 |
| 10° | 4047.5 | 3847.2 | 3432.9 | 3168.0 | 3052.6 |
| 11° | 4040.7 | 3796.2 | 3334.4 | 3032.2 | 2896.4 |
| 12° | 4027.1 | 3741.9 | 3229.2 | 2889.6 | 2770.8 |
| 13° | 4013.5 | 3684.2 | 3100.1 | 2767.4 | 2624.8 |
| 14° | 4000.0 | 3623.0 | 2988.1 | 2631.5 | 2499.1 |
| 15° | 3983.0 | 3558.5 | 2862.4 | 2502.5 | 2366.7 |
| 16° | 3966.0 | 3483.8 | 2750.4 | 2370.1 | 2227.5 |
| 17° | 3949.0 | 3412.5 | 2645.1 | 2247.9 | 2118.8 |
| 18° | 3928.6 | 3341.2 | 2522.9 | 2129.0 | 2003.4 |
| 19° | 3901.5 | 3259.7 | 2424.4 | 2020.4 | 1904.9 |
| 20° | 3877.7 | 3185.0 | 2312.4 | 1918.5 | 1816.6 |
| 21° | 3850.6 | 3093.3 | 2200.3 | 1823.4 | 1721.5 |
| 22.5° | 3809.8 | 2964.3 | 2057.7 | 1704.6 | 1609.5 |
| 23° | 3789.4 | 2927.0 | 2000.0 | 1660.4 | 1578.9 |
| 24° | 3762.3 | 2828.5 | 1904.9 | 1592.5 | 1511.0 |
| 25° | 3721.5 | 2750.4 | 1823.4 | 1531.4 | 1466.9 |
| 26° | 3684.2 | 2655.3 | 1741.9 | 1477.1 | 1412.5 |
| 27° | 3646.8 | 2563.6 | 1670.6 | 1419.3 | 1365.0 |
| 28° | 3599.3 | 2468.6 | 1592.5 | 1371.8 | 1324.3 |
| 29° | 3548.3 | 2380.3 | 1528.0 | 1331.1 | 1293.7 |
| 30° | 3497.4 | 2281.8 | 1473.7 | 1293.7 | 1263.1 |
| 32.5° | 3354.8 | 2064.5 | 1334.5 | 1222.4 | 1202.0 |
| 35° | 3185.0 | 1860.8 | 1236.0 | 1157.9 | 1151.1 |
| 37.5° | 2994.9 | 1674.0 | 1147.7 | 1106.9 | 1113.7 |
| 40° | 2770.8 | 1504.2 | 1073.0 | 1069.6 | 1083.2 |
| 42.5° | 2533.1 | 1358.2 | 1015.3 | 1039.0 | 1059.4 |
| 45° | 2288.6 | 1225.8 | 957.5 | 1008.5 | 1035.6 |
| 47.5° | 2033.9 | 1110.3 | 906.6 | 971.1 | 1001.7 |
| 50° | 1775.9 | 998.3 | 852.3 | 927.0 | 957.5 |
| 52.5° | 1545.0 | 899.8 | 798.0 | 876.1 | 910.0 |
| 55° | 1314.1 | 804.7 | 740.2 | 821.7 | 848.9 |
| 57.5° | 1113.7 | 716.5 | 679.1 | 760.6 | 781.0 |
| 60° | 927.0 | 631.6 | 618.0 | 692.7 | 716.5 |
| 62.5° | 757.2 | 556.9 | 560.3 | 631.6 | 655.3 |
| 65° | 618.0 | 485.6 | 509.3 | 573.8 | 594.2 |



TEST NUMBER: P566633

CATALOG NUMBER: 4SNX-60SL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 67.5° | 502.5 | 417.7 | 458.4 | 526.3 | 543.3 |
| 70° | 397.3 | 356.5 | 417.7 | 478.8 | 495.7 |
| 72.5° | 315.8 | 302.2 | 376.9 | 441.4 | 455.0 |
| 75° | 241.1 | 251.3 | 343.0 | 404.1 | 421.0 |
| 77.5° | 173.2 | 210.5 | 309.0 | 373.5 | 387.1 |
| 80° | 122.2 | 173.2 | 281.8 | 346.3 | 359.9 |
| 82.5° | 78.1 | 142.6 | 254.7 | 322.6 | 336.2 |
| 85° | 40.7 | 115.4 | 230.9 | 298.8 | 312.4 |
| 87.5° | 17.0 | 95.1 | 207.1 | 275.0 | 288.6 |
| 90° | 0.0 | 78.1 | 186.8 | 254.7 | 264.9 |
| 92.5° | 0.0 | 67.9 | 169.8 | 234.3 | 244.5 |
| 95° | 0.0 | 57.7 | 156.2 | 213.9 | 224.1 |
| 97.5° | 0.0 | 54.3 | 139.2 | 196.9 | 207.1 |
| 100° | 0.0 | 47.5 | 125.6 | 180.0 | 193.5 |
| 102.5° | 0.0 | 44.1 | 115.4 | 163.0 | 176.6 |
| 105° | 0.0 | 40.7 | 105.3 | 149.4 | 163.0 |
| 107.5° | 0.0 | 37.4 | 98.5 | 139.2 | 149.4 |
| 110° | 0.0 | 37.4 | 88.3 | 129.0 | 139.2 |
| 112.5° | 3.4 | 34.0 | 81.5 | 115.4 | 125.6 |
| 115° | 3.4 | 34.0 | 74.7 | 108.7 | 115.4 |
| 117.5° | 3.4 | 34.0 | 71.3 | 98.5 | 105.3 |
| 120° | 3.4 | 30.6 | 67.9 | 91.7 | 98.5 |
| 122.5° | 3.4 | 30.6 | 64.5 | 84.9 | 88.3 |
| 125° | 3.4 | 27.2 | 61.1 | 78.1 | 84.9 |
| 127.5° | 3.4 | 27.2 | 57.7 | 74.7 | 78.1 |
| 130° | 3.4 | 27.2 | 54.3 | 67.9 | 74.7 |
| 132.5° | 3.4 | 23.8 | 50.9 | 64.5 | 67.9 |
| 135° | 3.4 | 23.8 | 47.5 | 61.1 | 64.5 |
| 137.5° | 3.4 | 20.4 | 44.1 | 57.7 | 61.1 |
| 140° | 3.4 | 20.4 | 40.7 | 54.3 | 57.7 |
| 142.5° | 3.4 | 17.0 | 37.4 | 50.9 | 54.3 |
| 145° | 3.4 | 17.0 | 34.0 | 47.5 | 50.9 |
| 147.5° | 3.4 | 17.0 | 30.6 | 44.1 | 47.5 |
| 150° | 3.4 | 13.6 | 27.2 | 40.7 | 44.1 |
| 152.5° | 3.4 | 13.6 | 23.8 | 37.4 | 40.7 |
| 155° | 3.4 | 13.6 | 23.8 | 34.0 | 37.4 |
| 157.5° | 3.4 | 10.2 | 20.4 | 27.2 | 34.0 |
| 160° | 3.4 | 10.2 | 17.0 | 23.8 | 30.6 |
| 162.5° | 3.4 | 10.2 | 17.0 | 20.4 | 23.8 |
| 165° | 3.4 | 6.8 | 13.6 | 17.0 | 20.4 |
| 167.5° | 3.4 | 6.8 | 10.2 | 13.6 | 17.0 |
| 170° | 3.4 | 6.8 | 10.2 | 10.2 | 13.6 |
| 172.5° | 3.4 | 6.8 | 6.8 | 6.8 | 6.8 |
| 175° | 6.8 | 6.8 | 6.8 | 6.8 | 3.4 |
| 177.5° | 6.8 | 6.8 | 6.8 | 3.4 | 3.4 |



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CATALOG NUMBER: 4SNX-60SL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|------|-----|-------|-----|-------|-----|
| 180° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |

(END OF REPORT)