

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: P566777

Luminaire Tested: **4SNX-74HL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566777
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: 4SNX-74HL-LN-UNV-L850-CD
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

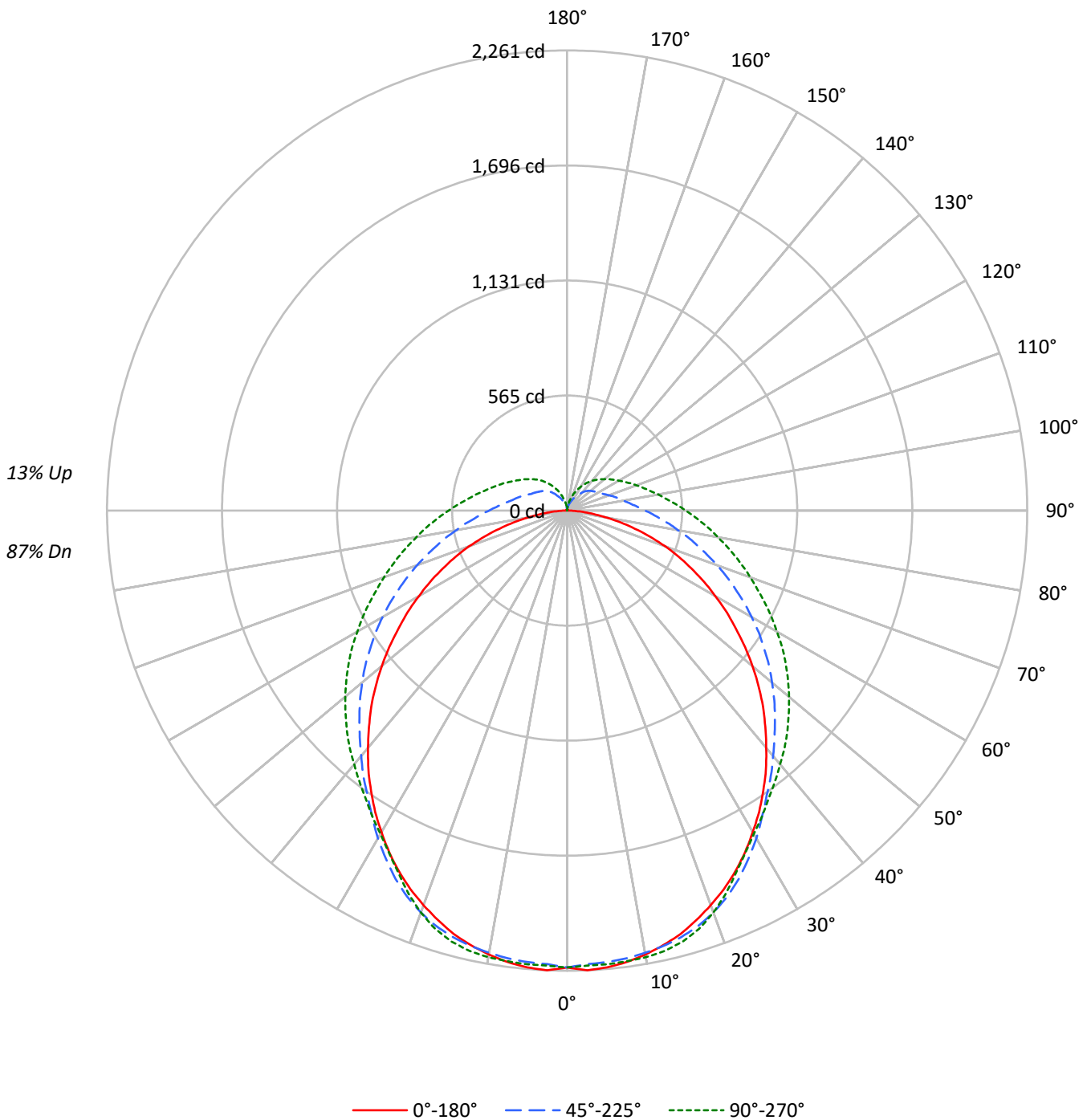
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8103.0 lumens
Efficiency: N/A
Efficacy: 156.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 51.8
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

TEST NUMBER: P566777
CATALOG NUMBER: 4SNX-74HL-LN-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566777

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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° | 24162 | 24162 | 24162 |
| 5° | 24254 | 23051 | 22847 |
| 10° | 24028 | 22157 | 21792 |
| 15° | 23738 | 21311 | 20729 |
| 20° | 23281 | 20363 | 19374 |
| 25° | 22790 | 19217 | 17786 |
| 30° | 22142 | 17932 | 16459 |
| 35° | 21451 | 16625 | 15469 |
| 40° | 20665 | 15575 | 14668 |
| 45° | 19895 | 14644 | 13977 |
| 50° | 18980 | 13786 | 13281 |
| 55° | 17909 | 12925 | 12598 |
| 60° | 16880 | 12067 | 11886 |
| 65° | 15737 | 11201 | 11232 |
| 70° | 14430 | 10389 | 10642 |
| 75° | 12410 | 9597 | 10155 |
| 80° | 9782 | 8912 | 9742 |
| 85° | 6550 | 8426 | 9506 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 213.2 | 2.6 |
| 10°-20° | 613.1 | 7.6 |
| 20°-30° | 912.9 | 11.3 |
| 30°-40° | 1077.2 | 13.3 |
| 40°-50° | 1123.4 | 13.9 |
| 50°-60° | 1055.7 | 13.0 |
| 60°-70° | 891.6 | 11.0 |
| 70°-80° | 673.7 | 8.3 |
| 80°-90° | 464.4 | 5.7 |
| 90°-100° | 325.0 | 4.0 |
| 100°-110° | 242.5 | 3.0 |
| 110°-120° | 182.8 | 2.3 |
| 120°-130° | 136.3 | 1.7 |
| 130°-140° | 95.7 | 1.2 |
| 140°-150° | 57.9 | 0.7 |
| 150°-160° | 27.7 | 0.3 |
| 160°-170° | 8.9 | 0.1 |
| 170°-180° | 1.1 | 0.0 |
| 0°-30° | 1739.3 | 21.5 |
| 0°-40° | 2816.5 | 34.8 |
| 0°-60° | 4995.7 | 61.7 |
| 0°-90° | 7025.3 | 86.7 |
| 90°-120° | 750.2 | 9.3 |
| 90°-150° | 1040.1 | 12.8 |
| 90°-180° | 1078.0 | 13.3 |
| 0°-180° | 8103.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2245 | 2245 | 2245 | 2245 | 2245 | |
| 5° | 2253 | 2249 | 2227 | 2243 | 2238 | 214 |
| 15° | 2154 | 2164 | 2169 | 2197 | 2192 | 607 |
| 25° | 1956 | 1996 | 1996 | 1978 | 1963 | 900 |
| 35° | 1680 | 1742 | 1709 | 1723 | 1727 | 1051 |
| 45° | 1361 | 1429 | 1444 | 1503 | 1530 | 1048 |
| 55° | 1011 | 1098 | 1181 | 1276 | 1310 | 907 |
| 65° | 673 | 780 | 912 | 1032 | 1072 | 668 |
| 75° | 345 | 478 | 662 | 801 | 852 | 367 |
| 85° | 78 | 246 | 459 | 610 | 664 | 88 |
| 90° | 1 | 174 | 383 | 530 | 582 | 5 |
| 95° | 1 | 136 | 324 | 464 | 512 | 1 |
| 105° | 3 | 98 | 250 | 363 | 404 | 3 |
| 115° | 3 | 84 | 194 | 288 | 326 | 3 |
| 125° | 4 | 71 | 164 | 236 | 266 | 4 |
| 135° | 4 | 55 | 136 | 192 | 216 | 3 |
| 145° | 6 | 40 | 95 | 147 | 165 | 3 |
| 155° | 6 | 26 | 58 | 93 | 108 | 3 |
| 165° | 7 | 16 | 30 | 41 | 55 | 2 |
| 175° | 7 | 7 | 8 | 8 | 4 | 1 |
| 180° | 4 | 4 | 4 | 4 | 4 | |



TEST NUMBER: P566777

CATALOG NUMBER: 4SNX-74HL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2244.7 | 2244.7 | 2244.7 | 2244.7 | 2244.7 |
| 2.5° | 2261.2 | 2255.7 | 2230.9 | 2244.7 | 2237.8 |
| 5° | 2252.9 | 2248.8 | 2226.8 | 2243.3 | 2237.8 |
| 7.5° | 2237.8 | 2236.4 | 2220.0 | 2239.2 | 2233.7 |
| 10° | 2214.5 | 2218.6 | 2206.2 | 2232.3 | 2228.2 |
| 12.5° | 2187.0 | 2195.2 | 2191.1 | 2220.0 | 2215.8 |
| 15° | 2154.0 | 2163.6 | 2169.1 | 2196.6 | 2192.5 |
| 17.5° | 2110.1 | 2127.9 | 2140.3 | 2162.3 | 2155.4 |
| 20° | 2063.3 | 2088.1 | 2101.8 | 2112.8 | 2101.8 |
| 22.5° | 2012.5 | 2045.5 | 2053.7 | 2048.2 | 2037.2 |
| 25° | 1956.2 | 1996.0 | 1996.0 | 1978.2 | 1963.1 |
| 27.5° | 1893.0 | 1942.5 | 1928.7 | 1908.1 | 1895.8 |
| 30° | 1824.3 | 1883.4 | 1860.0 | 1836.7 | 1833.9 |
| 32.5° | 1755.6 | 1817.5 | 1783.1 | 1777.6 | 1781.7 |
| 35° | 1680.1 | 1741.9 | 1708.9 | 1722.7 | 1726.8 |
| 37.5° | 1604.5 | 1666.3 | 1644.4 | 1665.0 | 1677.3 |
| 40° | 1522.1 | 1588.0 | 1574.3 | 1611.4 | 1627.9 |
| 42.5° | 1441.0 | 1509.7 | 1508.4 | 1556.4 | 1581.2 |
| 45° | 1361.4 | 1428.7 | 1443.8 | 1502.9 | 1530.3 |
| 47.5° | 1274.8 | 1343.5 | 1380.6 | 1449.3 | 1476.8 |
| 50° | 1189.7 | 1263.8 | 1314.7 | 1391.6 | 1423.2 |
| 52.5° | 1101.7 | 1180.0 | 1250.1 | 1335.3 | 1368.2 |
| 55° | 1011.1 | 1097.6 | 1181.4 | 1276.2 | 1310.5 |
| 57.5° | 930.0 | 1017.9 | 1116.8 | 1214.4 | 1254.2 |
| 60° | 840.7 | 938.3 | 1046.8 | 1149.8 | 1189.7 |
| 62.5° | 759.7 | 860.0 | 980.8 | 1089.4 | 1132.0 |
| 65° | 673.1 | 780.3 | 912.2 | 1031.7 | 1071.5 |
| 67.5° | 593.5 | 703.4 | 847.6 | 968.5 | 1012.4 |
| 70° | 511.0 | 627.8 | 784.4 | 912.2 | 957.5 |
| 72.5° | 425.9 | 549.5 | 721.2 | 857.2 | 903.9 |
| 75° | 344.8 | 478.1 | 662.1 | 800.9 | 851.7 |
| 77.5° | 269.3 | 409.4 | 608.6 | 751.4 | 800.9 |
| 80° | 195.1 | 347.6 | 552.2 | 700.6 | 751.4 |
| 82.5° | 129.1 | 294.0 | 506.9 | 655.3 | 708.8 |
| 85° | 78.3 | 245.9 | 458.8 | 609.9 | 663.5 |
| 87.5° | 35.7 | 206.1 | 420.4 | 570.1 | 622.3 |
| 90° | 1.4 | 174.5 | 383.3 | 530.3 | 582.5 |
| 92.5° | 1.4 | 152.5 | 353.0 | 495.9 | 546.7 |
| 95° | 1.4 | 136.0 | 324.2 | 464.3 | 512.4 |
| 97.5° | 1.4 | 125.0 | 302.2 | 434.1 | 480.8 |
| 100° | 1.4 | 114.0 | 280.2 | 406.6 | 454.7 |
| 102.5° | 2.7 | 104.4 | 263.8 | 381.9 | 427.2 |
| 105° | 2.7 | 97.5 | 250.0 | 362.7 | 403.9 |
| 107.5° | 2.7 | 93.4 | 234.9 | 343.4 | 381.9 |
| 110° | 2.7 | 89.3 | 218.4 | 324.2 | 362.7 |



TEST NUMBER: P566777

CATALOG NUMBER: 4SNX-74HL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.7 | 86.5 | 206.1 | 307.7 | 344.8 |
| 115° | 2.7 | 83.8 | 193.7 | 288.5 | 325.6 |
| 117.5° | 2.7 | 82.4 | 186.8 | 273.4 | 309.1 |
| 120° | 4.1 | 78.3 | 178.6 | 259.6 | 294.0 |
| 122.5° | 4.1 | 74.2 | 170.3 | 248.6 | 278.9 |
| 125° | 4.1 | 71.4 | 163.5 | 236.3 | 266.5 |
| 127.5° | 4.1 | 67.3 | 156.6 | 225.3 | 252.8 |
| 130° | 4.1 | 63.2 | 151.1 | 214.3 | 240.4 |
| 132.5° | 4.1 | 59.1 | 144.2 | 203.3 | 228.0 |
| 135° | 4.1 | 54.9 | 136.0 | 192.3 | 215.7 |
| 137.5° | 4.1 | 50.8 | 127.8 | 181.3 | 203.3 |
| 140° | 4.1 | 46.7 | 116.8 | 170.3 | 190.9 |
| 142.5° | 4.1 | 42.6 | 105.8 | 159.4 | 177.2 |
| 145° | 5.5 | 39.8 | 94.8 | 147.0 | 164.8 |
| 147.5° | 5.5 | 35.7 | 83.8 | 134.6 | 149.7 |
| 150° | 5.5 | 33.0 | 75.6 | 122.3 | 136.0 |
| 152.5° | 5.5 | 28.8 | 67.3 | 108.5 | 122.3 |
| 155° | 5.5 | 26.1 | 57.7 | 93.4 | 108.5 |
| 157.5° | 5.5 | 23.4 | 49.5 | 78.3 | 94.8 |
| 160° | 5.5 | 22.0 | 42.6 | 64.6 | 81.1 |
| 162.5° | 6.9 | 19.2 | 35.7 | 52.2 | 67.3 |
| 165° | 6.9 | 16.5 | 30.2 | 41.2 | 54.9 |
| 167.5° | 6.9 | 13.7 | 24.7 | 31.6 | 42.6 |
| 170° | 6.9 | 11.0 | 19.2 | 22.0 | 33.0 |
| 172.5° | 6.9 | 8.2 | 13.7 | 15.1 | 16.5 |
| 175° | 6.9 | 6.9 | 8.2 | 8.2 | 4.1 |
| 177.5° | 6.9 | 6.9 | 5.5 | 4.1 | 1.4 |
| 180° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |

(END OF REPORT)