

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: P565797

Luminaire Tested: **2SNX-47HL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNX-47HL-LC-UNV-L850-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

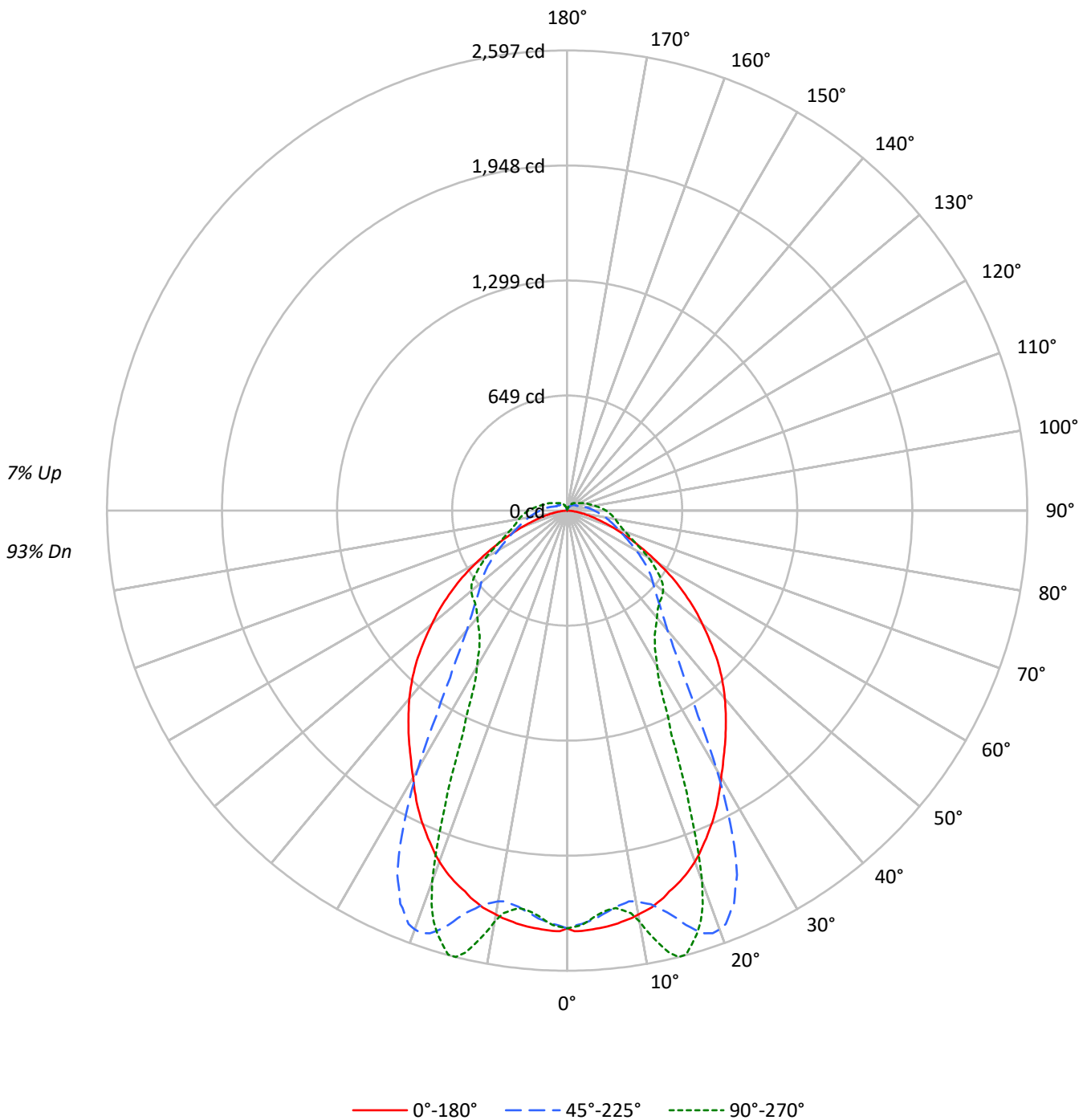
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5240.9 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 33.7
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: P565797
CATALOG NUMBER: 2SNX-47HL-LC-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P565797

CATALOG NUMBER: 2SNX-47HL-LC-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 | 89 | 89 | 87 | 85 | 85 | 83 | 81 | 78 | | | | |
| 2 | 99 | 91 | 84 | 79 | 95 | 88 | 83 | 78 | 84 | 79 | 75 | 80 | 76 | 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 | 68 | 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 | 58 | 51 | 45 | 56 | 49 | 44 | 54 | 48 | 43 | 52 | 46 | 42 | 40 | | | | |
| 7 | 67 | 55 | 46 | 41 | 65 | 54 | 46 | 40 | 51 | 45 | 40 | 49 | 43 | 39 | 48 | 42 | 38 | 36 | | | | |
| 8 | 63 | 50 | 42 | 37 | 61 | 49 | 42 | 36 | 47 | 41 | 36 | 46 | 40 | 35 | 44 | 39 | 35 | 33 | | | | |
| 9 | 59 | 46 | 39 | 34 | 57 | 46 | 38 | 33 | 44 | 37 | 33 | 42 | 37 | 32 | 41 | 36 | 32 | 30 | | | | |
| 10 | 56 | 43 | 36 | 31 | 54 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 38 | 33 | 29 | 27 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 50767 | 50767 | 50767 |
| 5° | 50643 | 47264 | 46470 |
| 10° | 49856 | 44775 | 46081 |
| 15° | 48515 | 46471 | 49057 |
| 20° | 46865 | 48295 | 41057 |
| 25° | 44333 | 43203 | 25243 |
| 30° | 41239 | 32086 | 18271 |
| 35° | 38688 | 22083 | 15412 |
| 40° | 36381 | 17087 | 14204 |
| 45° | 33732 | 14503 | 13433 |
| 50° | 30353 | 12974 | 13187 |
| 55° | 26812 | 11689 | 12201 |
| 60° | 22368 | 10074 | 10552 |
| 65° | 17809 | 8735 | 8807 |
| 70° | 13567 | 7811 | 7755 |
| 75° | 10050 | 7217 | 7233 |
| 80° | 6533 | 6784 | 7160 |
| 85° | 3036 | 6408 | 7109 |



TEST NUMBER: P565797

CATALOG NUMBER: 2SNX-47HL-LC-UNV-L850-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 219.4 | 4.2 |
| 10°-20° | 670.5 | 12.8 |
| 20°-30° | 902.9 | 17.2 |
| 30°-40° | 854.5 | 16.3 |
| 40°-50° | 754.2 | 14.4 |
| 50°-60° | 612.6 | 11.7 |
| 60°-70° | 416.6 | 7.9 |
| 70°-80° | 268.1 | 5.1 |
| 80°-90° | 178.3 | 3.4 |
| 90°-100° | 122.5 | 2.3 |
| 100°-110° | 82.2 | 1.6 |
| 110°-120° | 58.0 | 1.1 |
| 120°-130° | 41.4 | 0.8 |
| 130°-140° | 29.2 | 0.6 |
| 140°-150° | 18.1 | 0.3 |
| 150°-160° | 8.9 | 0.2 |
| 160°-170° | 3.1 | 0.1 |
| 170°-180° | 0.5 | 0.0 |
| 0°-30° | 1792.8 | 34.2 |
| 0°-40° | 2647.3 | 50.5 |
| 0°-60° | 4014.0 | 76.6 |
| 0°-90° | 4877.0 | 93.1 |
| 90°-120° | 262.7 | 5.0 |
| 90°-150° | 351.5 | 6.7 |
| 90°-180° | 364.0 | 6.9 |
| 0°-180° | 5240.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2358 | 2358 | 2358 | 2358 | 2358 | |
| 5° | 2361 | 2339 | 2289 | 2287 | 2276 | 224 |
| 15° | 2225 | 2211 | 2381 | 2592 | 2594 | 627 |
| 25° | 1939 | 2299 | 2269 | 1648 | 1393 | 890 |
| 35° | 1558 | 2186 | 1152 | 887 | 860 | 975 |
| 45° | 1200 | 1471 | 729 | 720 | 735 | 922 |
| 55° | 799 | 870 | 547 | 611 | 635 | 714 |
| 65° | 412 | 469 | 366 | 407 | 420 | 414 |
| 75° | 158 | 222 | 258 | 290 | 303 | 172 |
| 85° | 24 | 94 | 183 | 232 | 248 | 31 |
| 90° | 1 | 66 | 153 | 206 | 219 | 1 |
| 95° | 1 | 50 | 129 | 174 | 186 | 1 |
| 105° | 2 | 35 | 85 | 119 | 134 | 2 |
| 115° | 2 | 30 | 62 | 89 | 100 | 2 |
| 125° | 2 | 26 | 54 | 67 | 72 | 2 |
| 135° | 3 | 20 | 44 | 56 | 59 | 2 |
| 145° | 3 | 14 | 31 | 43 | 47 | 2 |
| 155° | 4 | 9 | 19 | 29 | 33 | 2 |
| 165° | 4 | 6 | 10 | 14 | 18 | 1 |
| 175° | 5 | 5 | 5 | 5 | 4 | 0 |
| 180° | 4 | 4 | 4 | 4 | 4 | |



TEST NUMBER: P565797

CATALOG NUMBER: 2SNX-47HL-LC-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2358.2 | 2358.2 | 2358.2 | 2358.2 | 2358.2 |
| 1° | 2374.2 | 2367.0 | 2343.0 | 2355.8 | 2349.4 |
| 2° | 2373.4 | 2361.4 | 2334.2 | 2348.6 | 2340.6 |
| 3° | 2369.4 | 2356.6 | 2321.4 | 2330.2 | 2318.2 |
| 4° | 2365.4 | 2350.2 | 2307.8 | 2307.8 | 2294.2 |
| 5° | 2360.6 | 2339.0 | 2288.6 | 2287.0 | 2275.8 |
| 6° | 2355.0 | 2330.2 | 2271.8 | 2270.2 | 2263.8 |
| 7° | 2347.0 | 2315.0 | 2253.4 | 2264.6 | 2259.8 |
| 8° | 2337.4 | 2300.6 | 2243.8 | 2271.8 | 2279.0 |
| 9° | 2328.6 | 2283.0 | 2232.6 | 2294.2 | 2299.8 |
| 10° | 2314.2 | 2267.0 | 2239.8 | 2339.0 | 2355.8 |
| 11° | 2302.2 | 2253.4 | 2255.8 | 2383.0 | 2433.4 |
| 12° | 2290.2 | 2239.0 | 2271.0 | 2438.2 | 2499.8 |
| 13° | 2270.2 | 2227.8 | 2304.6 | 2498.2 | 2561.4 |
| 14° | 2252.6 | 2219.0 | 2337.4 | 2559.0 | 2596.7 |
| 15° | 2225.4 | 2211.0 | 2381.4 | 2591.9 | 2594.3 |
| 16° | 2207.0 | 2205.4 | 2432.6 | 2594.3 | 2549.4 |
| 17° | 2186.1 | 2203.0 | 2474.2 | 2552.6 | 2499.8 |
| 18° | 2162.9 | 2207.8 | 2508.6 | 2500.6 | 2439.8 |
| 19° | 2136.5 | 2212.6 | 2523.0 | 2428.6 | 2350.2 |
| 20° | 2107.7 | 2219.8 | 2515.0 | 2353.4 | 2227.0 |
| 21° | 2078.9 | 2229.4 | 2499.8 | 2274.2 | 2065.3 |
| 22.5° | 2025.3 | 2252.6 | 2427.8 | 2051.7 | 1798.1 |
| 23° | 2010.1 | 2257.4 | 2411.0 | 1982.1 | 1728.4 |
| 24° | 1972.5 | 2277.4 | 2334.2 | 1819.7 | 1544.4 |
| 25° | 1938.9 | 2299.0 | 2268.6 | 1647.6 | 1393.1 |
| 26° | 1901.3 | 2315.0 | 2169.3 | 1489.2 | 1300.3 |
| 27° | 1864.5 | 2324.6 | 2056.5 | 1365.9 | 1196.3 |
| 28° | 1822.1 | 2335.0 | 1934.1 | 1259.5 | 1117.9 |
| 29° | 1782.0 | 2336.6 | 1813.3 | 1174.7 | 1056.3 |
| 30° | 1738.8 | 2328.6 | 1686.0 | 1106.7 | 1017.9 |
| 32.5° | 1644.4 | 2284.6 | 1374.7 | 977.0 | 921.8 |
| 35° | 1558.0 | 2186.1 | 1152.3 | 887.4 | 860.2 |
| 37.5° | 1470.8 | 2030.9 | 996.3 | 831.4 | 822.6 |
| 40° | 1385.1 | 1846.9 | 878.6 | 786.6 | 788.2 |
| 42.5° | 1294.7 | 1657.2 | 797.8 | 749.8 | 757.0 |
| 45° | 1200.3 | 1470.8 | 729.0 | 720.2 | 735.4 |
| 47.5° | 1095.5 | 1300.3 | 674.6 | 701.0 | 724.2 |
| 50° | 996.3 | 1131.5 | 632.2 | 682.6 | 706.6 |
| 52.5° | 901.8 | 993.0 | 593.7 | 651.4 | 679.4 |
| 55° | 799.4 | 869.8 | 547.3 | 611.4 | 634.6 |
| 57.5° | 701.8 | 758.6 | 498.5 | 561.7 | 582.5 |
| 60° | 594.5 | 649.0 | 448.9 | 508.1 | 528.1 |
| 62.5° | 497.7 | 555.3 | 406.5 | 454.5 | 470.5 |
| 65° | 412.1 | 468.9 | 366.5 | 407.3 | 420.1 |



TEST NUMBER: P565797

CATALOG NUMBER: 2SNX-47HL-LC-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 67.5° | 336.1 | 396.9 | 333.7 | 368.1 | 380.1 |
| 70° | 264.9 | 328.9 | 304.9 | 336.1 | 348.9 |
| 72.5° | 207.3 | 272.1 | 280.9 | 309.7 | 322.5 |
| 75° | 158.4 | 221.7 | 258.5 | 289.7 | 303.3 |
| 77.5° | 117.6 | 180.8 | 237.7 | 273.7 | 288.1 |
| 80° | 77.6 | 144.0 | 219.3 | 259.3 | 276.1 |
| 82.5° | 48.8 | 116.0 | 200.9 | 244.9 | 262.5 |
| 85° | 24.0 | 94.4 | 183.2 | 232.1 | 248.1 |
| 87.5° | 8.0 | 78.4 | 167.2 | 219.3 | 232.9 |
| 90° | 0.8 | 65.6 | 152.8 | 205.7 | 219.3 |
| 92.5° | 0.8 | 56.8 | 140.8 | 189.6 | 203.3 |
| 95° | 0.8 | 50.4 | 128.8 | 174.4 | 186.4 |
| 97.5° | 0.8 | 45.6 | 117.6 | 158.4 | 171.2 |
| 100° | 0.8 | 40.8 | 105.6 | 143.2 | 156.8 |
| 102.5° | 1.6 | 37.6 | 95.2 | 130.4 | 144.8 |
| 105° | 1.6 | 35.2 | 84.8 | 119.2 | 133.6 |
| 107.5° | 1.6 | 33.6 | 76.0 | 110.4 | 124.0 |
| 110° | 1.6 | 32.0 | 69.6 | 102.4 | 116.8 |
| 112.5° | 1.6 | 31.2 | 65.6 | 95.2 | 108.8 |
| 115° | 1.6 | 30.4 | 62.4 | 88.8 | 100.0 |
| 117.5° | 2.4 | 29.6 | 60.0 | 82.4 | 91.2 |
| 120° | 2.4 | 28.0 | 58.4 | 76.8 | 84.0 |
| 122.5° | 2.4 | 26.4 | 56.0 | 72.0 | 77.6 |
| 125° | 2.4 | 25.6 | 53.6 | 67.2 | 72.0 |
| 127.5° | 2.4 | 24.0 | 51.2 | 63.2 | 68.0 |
| 130° | 3.2 | 22.4 | 48.8 | 60.0 | 64.0 |
| 132.5° | 3.2 | 20.8 | 46.4 | 58.4 | 61.6 |
| 135° | 3.2 | 20.0 | 44.0 | 56.0 | 59.2 |
| 137.5° | 3.2 | 18.4 | 41.6 | 53.6 | 56.8 |
| 140° | 3.2 | 16.8 | 38.4 | 50.4 | 53.6 |
| 142.5° | 3.2 | 16.0 | 35.2 | 47.2 | 50.4 |
| 145° | 3.2 | 14.4 | 31.2 | 43.2 | 47.2 |
| 147.5° | 4.0 | 13.6 | 28.0 | 40.0 | 43.2 |
| 150° | 4.0 | 12.0 | 24.8 | 36.8 | 40.0 |
| 152.5° | 4.0 | 10.4 | 21.6 | 32.8 | 36.0 |
| 155° | 4.0 | 8.8 | 19.2 | 28.8 | 32.8 |
| 157.5° | 4.0 | 8.0 | 16.8 | 24.0 | 28.8 |
| 160° | 4.0 | 7.2 | 14.4 | 20.8 | 24.8 |
| 162.5° | 4.0 | 6.4 | 12.8 | 17.6 | 21.6 |
| 165° | 4.0 | 5.6 | 10.4 | 14.4 | 17.6 |
| 167.5° | 4.8 | 5.6 | 8.8 | 11.2 | 14.4 |
| 170° | 4.8 | 5.6 | 7.2 | 8.8 | 11.2 |
| 172.5° | 4.8 | 4.8 | 5.6 | 6.4 | 7.2 |
| 175° | 4.8 | 4.8 | 4.8 | 4.8 | 4.0 |
| 177.5° | 4.8 | 4.8 | 4.8 | 4.0 | 4.0 |



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CATALOG NUMBER: 2SNX-47HL-LC-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

| | | | | | |
|------|-----|-------|-----|-------|-----|
| | 0° | 22.5° | 45° | 67.5° | 90° |
| 180° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |

(END OF REPORT)