

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: P566853

Luminaire Tested: **4SNX-81HL-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-17)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-81HL-UNV-L950-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

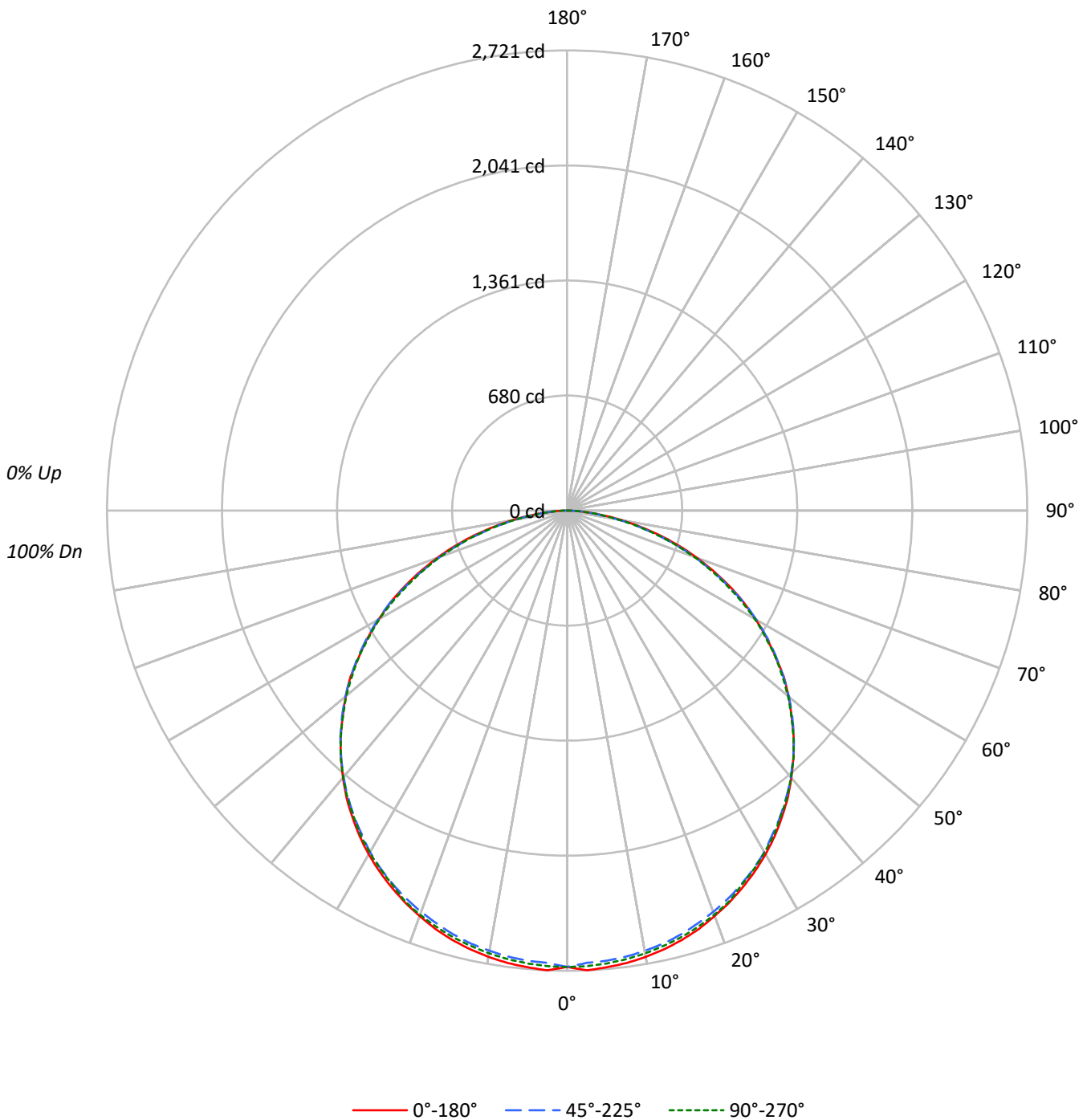
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8077.0 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 55.1
Input Voltage (V): NR
Input Current (A_{in}): 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: P566853
CATALOG NUMBER: 4SNX-81HL-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566853

CATALOG NUMBER: 4SNX-81HL-UNV-L950-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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 109 | 104 | 99 | 95 | 106 | 101 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 83 | | | | | 83 | | | |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 | | | | | 69 | | | |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | 58 | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 51 | 49 | | | | | 49 | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 | | | | | 42 | | | |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 | | | | | 37 | | | |
| 7 | 64 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | 33 | | | |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 | | | | | 29 | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | 26 | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 36 | 30 | 25 | 23 | | | | | 23 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 29044 | 29044 | 29044 |
| 5° | 29278 | 28871 | 29044 |
| 10° | 29292 | 28892 | 29055 |
| 15° | 29280 | 28923 | 29088 |
| 20° | 29220 | 28920 | 29129 |
| 25° | 29185 | 28954 | 29009 |
| 30° | 29166 | 28981 | 29010 |
| 35° | 29094 | 28914 | 28959 |
| 40° | 28977 | 28913 | 28929 |
| 45° | 28819 | 28872 | 28819 |
| 50° | 28625 | 28682 | 28530 |
| 55° | 28179 | 28330 | 28179 |
| 60° | 27704 | 27827 | 27581 |
| 65° | 27018 | 26697 | 26407 |
| 70° | 25731 | 25155 | 25083 |
| 75° | 23743 | 22603 | 22699 |
| 80° | 20313 | 19042 | 19396 |
| 85° | 15092 | 14808 | 13820 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 256.1 | 3.2 |
| 10°-20° | 737.8 | 9.1 |
| 20°-30° | 1129.5 | 14.0 |
| 30°-40° | 1381.7 | 17.1 |
| 40°-50° | 1461.4 | 18.1 |
| 50°-60° | 1346.6 | 16.7 |
| 60°-70° | 1036.4 | 12.8 |
| 70°-80° | 582.3 | 7.2 |
| 80°-90° | 145.2 | 1.8 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 2123.4 | 26.3 |
| 0°-40° | 3505.1 | 43.4 |
| 0°-60° | 6313.1 | 78.2 |
| 0°-90° | 8077.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8077.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2698 | 2698 | 2698 | 2698 | 2698 | |
| 5° | 2710 | 2702 | 2672 | 2696 | 2688 | 258 |
| 15° | 2628 | 2621 | 2596 | 2618 | 2610 | 742 |
| 25° | 2457 | 2455 | 2438 | 2455 | 2442 | 1133 |
| 35° | 2214 | 2211 | 2200 | 2211 | 2204 | 1386 |
| 45° | 1893 | 1899 | 1897 | 1892 | 1893 | 1460 |
| 55° | 1502 | 1515 | 1510 | 1505 | 1502 | 1345 |
| 65° | 1061 | 1063 | 1048 | 1033 | 1037 | 1046 |
| 75° | 571 | 562 | 544 | 536 | 546 | 601 |
| 85° | 122 | 120 | 120 | 116 | 112 | 151 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P566853

CATALOG NUMBER: 4SNX-81HL-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2698.3 | 2698.3 | 2698.3 | 2698.3 | 2698.3 |
| 2.5° | 2721.1 | 2706.2 | 2676.6 | 2702.8 | 2696.0 |
| 5° | 2709.7 | 2701.7 | 2672.0 | 2696.0 | 2688.0 |
| 7.5° | 2698.3 | 2689.1 | 2660.6 | 2686.8 | 2675.4 |
| 10° | 2680.0 | 2672.0 | 2643.4 | 2668.6 | 2658.3 |
| 12.5° | 2656.0 | 2649.1 | 2622.9 | 2646.9 | 2636.6 |
| 15° | 2627.5 | 2620.6 | 2595.5 | 2618.3 | 2610.3 |
| 17.5° | 2593.2 | 2585.2 | 2561.2 | 2585.2 | 2579.5 |
| 20° | 2550.9 | 2546.4 | 2524.7 | 2546.4 | 2543.0 |
| 22.5° | 2507.6 | 2501.8 | 2484.7 | 2500.7 | 2501.8 |
| 25° | 2457.3 | 2455.0 | 2437.9 | 2455.0 | 2442.5 |
| 27.5° | 2404.8 | 2404.8 | 2387.7 | 2399.1 | 2391.1 |
| 30° | 2346.6 | 2345.4 | 2331.7 | 2337.4 | 2334.0 |
| 32.5° | 2283.7 | 2282.6 | 2264.3 | 2279.2 | 2273.5 |
| 35° | 2214.1 | 2210.7 | 2200.4 | 2210.7 | 2203.8 |
| 37.5° | 2142.2 | 2138.7 | 2130.7 | 2136.4 | 2135.3 |
| 40° | 2062.2 | 2062.2 | 2057.7 | 2062.2 | 2058.8 |
| 42.5° | 1980.0 | 1983.4 | 1977.7 | 1982.3 | 1982.3 |
| 45° | 1893.2 | 1898.9 | 1896.7 | 1892.1 | 1893.2 |
| 47.5° | 1800.7 | 1811.0 | 1805.3 | 1804.2 | 1798.5 |
| 50° | 1709.4 | 1718.5 | 1712.8 | 1707.1 | 1703.7 |
| 52.5° | 1614.6 | 1619.2 | 1612.3 | 1610.0 | 1602.1 |
| 55° | 1501.6 | 1515.3 | 1509.6 | 1505.0 | 1501.6 |
| 57.5° | 1397.7 | 1407.9 | 1403.4 | 1394.2 | 1388.5 |
| 60° | 1286.9 | 1294.9 | 1292.6 | 1282.3 | 1281.2 |
| 62.5° | 1178.4 | 1180.7 | 1178.4 | 1160.1 | 1161.3 |
| 65° | 1060.8 | 1063.1 | 1048.2 | 1033.4 | 1036.8 |
| 67.5° | 937.5 | 944.3 | 923.8 | 902.1 | 916.9 |
| 70° | 817.6 | 815.3 | 799.3 | 775.3 | 797.0 |
| 72.5° | 694.3 | 692.0 | 673.7 | 656.6 | 671.4 |
| 75° | 570.9 | 561.8 | 543.5 | 535.5 | 545.8 |
| 77.5° | 443.0 | 432.8 | 424.8 | 419.1 | 423.6 |
| 80° | 327.7 | 314.0 | 307.2 | 302.6 | 312.9 |
| 82.5° | 218.1 | 207.8 | 204.4 | 207.8 | 205.5 |
| 85° | 122.2 | 119.9 | 119.9 | 116.5 | 111.9 |
| 87.5° | 50.2 | 52.5 | 53.7 | 52.5 | 50.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)