

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: P566771

Luminaire Tested: **4SNX-74HL-LC-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566771
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: 4SNX-74HL-LC-UNV-L935-CD
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

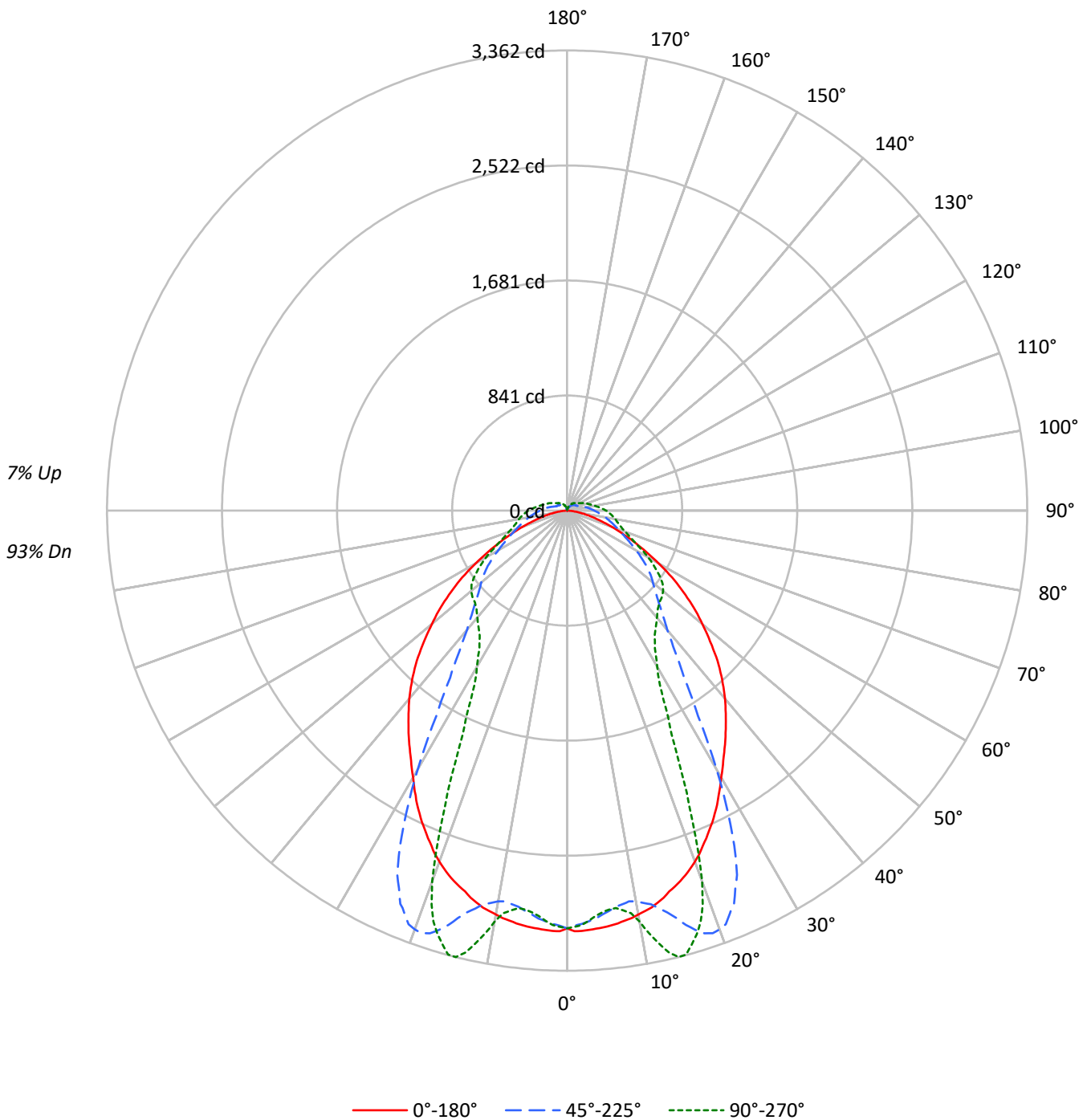
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6785.0 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 51.8
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: P566771
CATALOG NUMBER: 4SNX-74HL-LC-UNV-L935-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566771

CATALOG NUMBER: 4SNX-74HL-LC-UNV-L935-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 | 36 | 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° | 32861 | 32861 | 32861 |
| 5° | 32900 | 30669 | 30079 |
| 10° | 32506 | 29121 | 29828 |
| 15° | 31749 | 30291 | 31754 |
| 20° | 30790 | 31546 | 26575 |
| 25° | 29243 | 28276 | 16341 |
| 30° | 27322 | 21044 | 11826 |
| 35° | 25753 | 14513 | 9976 |
| 40° | 24346 | 11254 | 9194 |
| 45° | 22708 | 9571 | 8695 |
| 50° | 20575 | 8582 | 8536 |
| 55° | 18330 | 7752 | 7897 |
| 60° | 15455 | 6700 | 6831 |
| 65° | 12473 | 5827 | 5701 |
| 70° | 9683 | 5228 | 5020 |
| 75° | 7382 | 4850 | 4681 |
| 80° | 5039 | 4580 | 4634 |
| 85° | 2602 | 4356 | 4600 |



TEST NUMBER: P566771

CATALOG NUMBER: 4SNX-74HL-LC-UNV-L935-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 284.1 | 4.2 |
| 10°-20° | 868.1 | 12.8 |
| 20°-30° | 1168.8 | 17.2 |
| 30°-40° | 1106.2 | 16.3 |
| 40°-50° | 976.4 | 14.4 |
| 50°-60° | 793.0 | 11.7 |
| 60°-70° | 539.4 | 7.9 |
| 70°-80° | 347.0 | 5.1 |
| 80°-90° | 230.7 | 3.4 |
| 90°-100° | 158.6 | 2.3 |
| 100°-110° | 106.5 | 1.6 |
| 110°-120° | 75.1 | 1.1 |
| 120°-130° | 53.6 | 0.8 |
| 130°-140° | 37.8 | 0.6 |
| 140°-150° | 23.5 | 0.3 |
| 150°-160° | 11.5 | 0.2 |
| 160°-170° | 4.0 | 0.1 |
| 170°-180° | 0.7 | 0.0 |
| 0°-30° | 2321.0 | 34.2 |
| 0°-40° | 3427.2 | 50.5 |
| 0°-60° | 5196.6 | 76.6 |
| 0°-90° | 6313.7 | 93.1 |
| 90°-120° | 340.1 | 5.0 |
| 90°-150° | 455.1 | 6.7 |
| 90°-180° | 471.0 | 6.9 |
| 0°-180° | 6785.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3053 | 3053 | 3053 | 3053 | 3053 | |
| 5° | 3056 | 3028 | 2963 | 2961 | 2946 | 290 |
| 15° | 2881 | 2862 | 3083 | 3355 | 3358 | 812 |
| 25° | 2510 | 2976 | 2937 | 2133 | 1804 | 1152 |
| 35° | 2017 | 2830 | 1492 | 1149 | 1114 | 1262 |
| 45° | 1554 | 1904 | 944 | 932 | 952 | 1193 |
| 55° | 1035 | 1126 | 709 | 792 | 822 | 924 |
| 65° | 534 | 607 | 474 | 527 | 544 | 536 |
| 75° | 205 | 287 | 335 | 375 | 393 | 223 |
| 85° | 31 | 122 | 237 | 300 | 321 | 41 |
| 90° | 1 | 85 | 198 | 266 | 284 | 2 |
| 95° | 1 | 65 | 167 | 226 | 241 | 1 |
| 105° | 2 | 46 | 110 | 154 | 173 | 2 |
| 115° | 2 | 39 | 81 | 115 | 130 | 2 |
| 125° | 3 | 33 | 69 | 87 | 93 | 3 |
| 135° | 4 | 26 | 57 | 72 | 77 | 3 |
| 145° | 4 | 19 | 40 | 56 | 61 | 3 |
| 155° | 5 | 11 | 25 | 37 | 42 | 2 |
| 165° | 5 | 7 | 14 | 19 | 23 | 2 |
| 175° | 6 | 6 | 6 | 6 | 5 | 1 |
| 180° | 5 | 5 | 5 | 5 | 5 | |



TEST NUMBER: P566771

CATALOG NUMBER: 4SNX-74HL-LC-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3052.9 | 3052.9 | 3052.9 | 3052.9 | 3052.9 |
| 1° | 3073.6 | 3064.3 | 3033.2 | 3049.8 | 3041.5 |
| 2° | 3072.6 | 3057.1 | 3021.8 | 3040.5 | 3030.1 |
| 3° | 3067.4 | 3050.8 | 3005.3 | 3016.7 | 3001.1 |
| 4° | 3062.2 | 3042.6 | 2987.7 | 2987.7 | 2970.0 |
| 5° | 3056.0 | 3028.1 | 2962.8 | 2960.7 | 2946.2 |
| 6° | 3048.8 | 3016.7 | 2941.0 | 2939.0 | 2930.7 |
| 7° | 3038.4 | 2997.0 | 2917.2 | 2931.7 | 2925.5 |
| 8° | 3026.0 | 2978.3 | 2904.8 | 2941.0 | 2950.4 |
| 9° | 3014.6 | 2955.5 | 2890.3 | 2970.0 | 2977.3 |
| 10° | 2995.9 | 2934.8 | 2899.6 | 3028.1 | 3049.8 |
| 11° | 2980.4 | 2917.2 | 2920.3 | 3085.0 | 3150.3 |
| 12° | 2964.9 | 2898.6 | 2940.0 | 3156.5 | 3236.3 |
| 13° | 2939.0 | 2884.1 | 2983.5 | 3234.2 | 3316.0 |
| 14° | 2916.2 | 2872.7 | 3026.0 | 3312.9 | 3361.6 |
| 15° | 2880.9 | 2862.3 | 3083.0 | 3355.4 | 3358.5 |
| 16° | 2857.1 | 2855.1 | 3149.3 | 3358.5 | 3300.5 |
| 17° | 2830.2 | 2851.9 | 3203.1 | 3304.6 | 3236.3 |
| 18° | 2800.1 | 2858.2 | 3247.7 | 3237.3 | 3158.6 |
| 19° | 2766.0 | 2864.4 | 3266.3 | 3144.1 | 3042.6 |
| 20° | 2728.7 | 2873.7 | 3256.0 | 3046.7 | 2883.0 |
| 21° | 2691.4 | 2886.1 | 3236.3 | 2944.1 | 2673.8 |
| 22.5° | 2622.0 | 2916.2 | 3143.0 | 2656.2 | 2327.8 |
| 23° | 2602.3 | 2922.4 | 3121.3 | 2566.0 | 2237.6 |
| 24° | 2553.6 | 2948.3 | 3021.8 | 2355.7 | 1999.4 |
| 25° | 2510.1 | 2976.3 | 2936.9 | 2133.0 | 1803.6 |
| 26° | 2461.4 | 2997.0 | 2808.4 | 1927.9 | 1683.4 |
| 27° | 2413.7 | 3009.4 | 2662.4 | 1768.3 | 1548.7 |
| 28° | 2358.8 | 3022.9 | 2503.9 | 1630.6 | 1447.2 |
| 29° | 2307.0 | 3024.9 | 2347.4 | 1520.8 | 1367.4 |
| 30° | 2251.1 | 3014.6 | 2182.7 | 1432.7 | 1317.7 |
| 32.5° | 2128.9 | 2957.6 | 1779.7 | 1264.9 | 1193.4 |
| 35° | 2017.0 | 2830.2 | 1491.8 | 1148.9 | 1113.6 |
| 37.5° | 1904.1 | 2629.2 | 1289.7 | 1076.3 | 1064.9 |
| 40° | 1793.2 | 2390.9 | 1137.5 | 1018.3 | 1020.4 |
| 42.5° | 1676.2 | 2145.4 | 1032.8 | 970.7 | 980.0 |
| 45° | 1553.9 | 1904.1 | 943.7 | 932.3 | 952.0 |
| 47.5° | 1418.2 | 1683.4 | 873.3 | 907.5 | 937.5 |
| 50° | 1289.7 | 1464.8 | 818.4 | 883.7 | 914.7 |
| 52.5° | 1167.5 | 1285.6 | 768.7 | 843.3 | 879.5 |
| 55° | 1034.9 | 1126.1 | 708.6 | 791.5 | 821.5 |
| 57.5° | 908.5 | 982.1 | 645.4 | 727.2 | 754.2 |
| 60° | 769.7 | 840.1 | 581.2 | 657.8 | 683.7 |
| 62.5° | 644.4 | 718.9 | 526.3 | 588.4 | 609.1 |
| 65° | 533.5 | 607.1 | 474.5 | 527.3 | 543.9 |



TEST NUMBER: P566771

CATALOG NUMBER: 4SNX-74HL-LC-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 67.5° | 435.1 | 513.8 | 432.0 | 476.5 | 492.1 |
| 70° | 342.9 | 425.8 | 394.7 | 435.1 | 451.7 |
| 72.5° | 268.3 | 352.2 | 363.6 | 400.9 | 417.5 |
| 75° | 205.1 | 287.0 | 334.6 | 375.0 | 392.6 |
| 77.5° | 152.3 | 234.1 | 307.7 | 354.3 | 372.9 |
| 80° | 100.5 | 186.5 | 283.8 | 335.6 | 357.4 |
| 82.5° | 63.2 | 150.2 | 260.0 | 317.0 | 339.8 |
| 85° | 31.1 | 122.2 | 237.2 | 300.4 | 321.1 |
| 87.5° | 10.4 | 101.5 | 216.5 | 283.8 | 301.5 |
| 90° | 1.0 | 84.9 | 197.9 | 266.2 | 283.8 |
| 92.5° | 1.0 | 73.6 | 182.3 | 245.5 | 263.1 |
| 95° | 1.0 | 65.3 | 166.8 | 225.8 | 241.4 |
| 97.5° | 1.0 | 59.0 | 152.3 | 205.1 | 221.7 |
| 100° | 1.0 | 52.8 | 136.7 | 185.4 | 203.0 |
| 102.5° | 2.1 | 48.7 | 123.3 | 168.9 | 187.5 |
| 105° | 2.1 | 45.6 | 109.8 | 154.4 | 173.0 |
| 107.5° | 2.1 | 43.5 | 98.4 | 143.0 | 160.6 |
| 110° | 2.1 | 41.4 | 90.1 | 132.6 | 151.2 |
| 112.5° | 2.1 | 40.4 | 84.9 | 123.3 | 140.9 |
| 115° | 2.1 | 39.4 | 80.8 | 115.0 | 129.5 |
| 117.5° | 3.1 | 38.3 | 77.7 | 106.7 | 118.1 |
| 120° | 3.1 | 36.3 | 75.6 | 99.5 | 108.8 |
| 122.5° | 3.1 | 34.2 | 72.5 | 93.2 | 100.5 |
| 125° | 3.1 | 33.2 | 69.4 | 87.0 | 93.2 |
| 127.5° | 3.1 | 31.1 | 66.3 | 81.8 | 88.1 |
| 130° | 4.1 | 29.0 | 63.2 | 77.7 | 82.9 |
| 132.5° | 4.1 | 26.9 | 60.1 | 75.6 | 79.8 |
| 135° | 4.1 | 25.9 | 57.0 | 72.5 | 76.7 |
| 137.5° | 4.1 | 23.8 | 53.9 | 69.4 | 73.6 |
| 140° | 4.1 | 21.8 | 49.7 | 65.3 | 69.4 |
| 142.5° | 4.1 | 20.7 | 45.6 | 61.1 | 65.3 |
| 145° | 4.1 | 18.6 | 40.4 | 55.9 | 61.1 |
| 147.5° | 5.2 | 17.6 | 36.3 | 51.8 | 55.9 |
| 150° | 5.2 | 15.5 | 32.1 | 47.7 | 51.8 |
| 152.5° | 5.2 | 13.5 | 28.0 | 42.5 | 46.6 |
| 155° | 5.2 | 11.4 | 24.9 | 37.3 | 42.5 |
| 157.5° | 5.2 | 10.4 | 21.8 | 31.1 | 37.3 |
| 160° | 5.2 | 9.3 | 18.6 | 26.9 | 32.1 |
| 162.5° | 5.2 | 8.3 | 16.6 | 22.8 | 28.0 |
| 165° | 5.2 | 7.3 | 13.5 | 18.6 | 22.8 |
| 167.5° | 6.2 | 7.3 | 11.4 | 14.5 | 18.6 |
| 170° | 6.2 | 7.3 | 9.3 | 11.4 | 14.5 |
| 172.5° | 6.2 | 6.2 | 7.3 | 8.3 | 9.3 |
| 175° | 6.2 | 6.2 | 6.2 | 6.2 | 5.2 |
| 177.5° | 6.2 | 6.2 | 6.2 | 5.2 | 5.2 |



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CATALOG NUMBER: 4SNX-74HL-LC-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|------|-----|-------|-----|-------|-----|
| 180° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |

(END OF REPORT)