

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: P567447

Luminaire Tested: **8SNX-162HL-FDL-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-162HL-FDL-UNV-L935-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

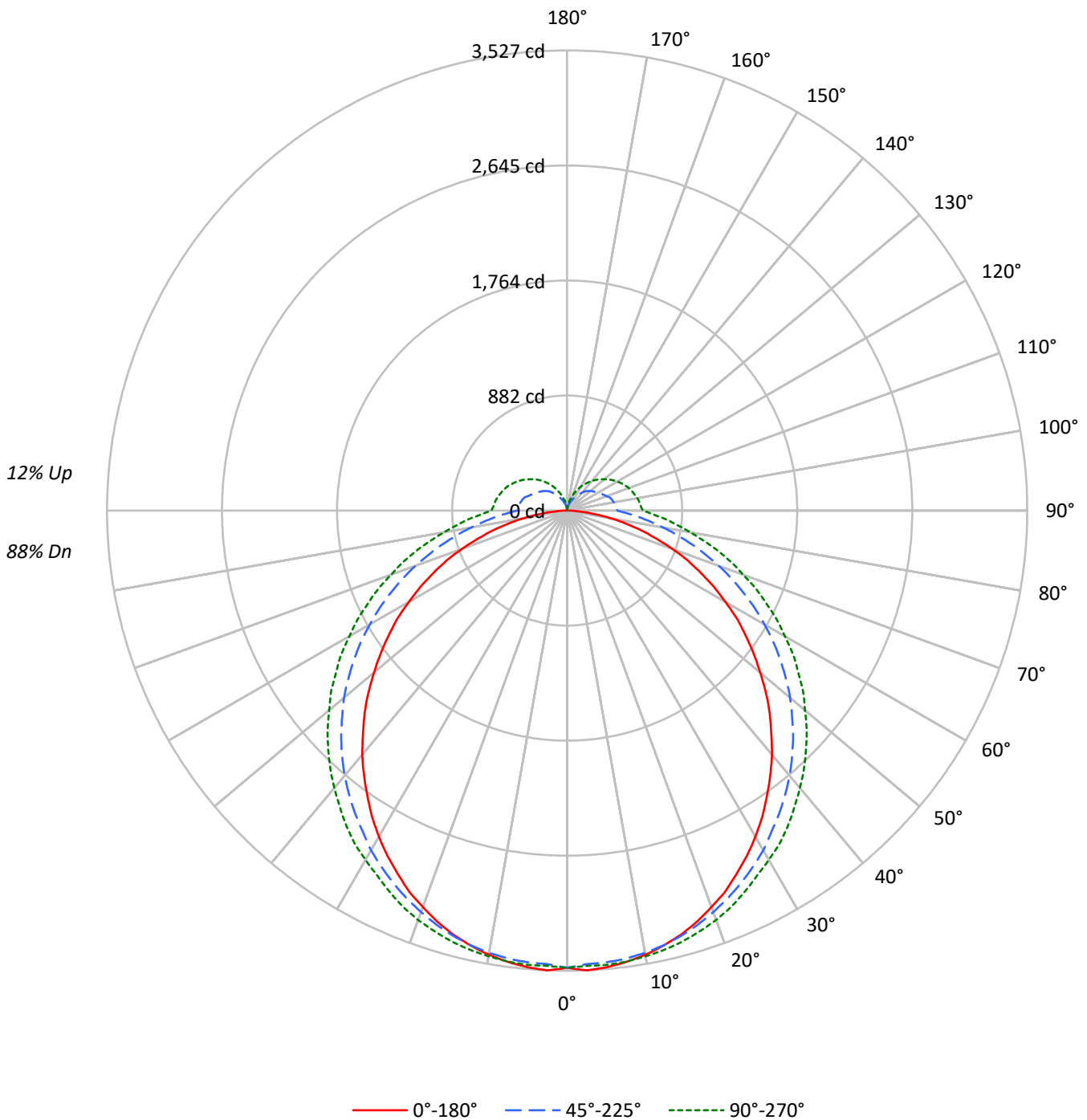
Lumens per Lamp: N/A
Luminaire Lumens: 12614.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 110.2
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: P567447

CATALOG NUMBER: 8SNX-162HL-FDL-UNV-L935-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567447

CATALOG NUMBER: 8SNX-162HL-FDL-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 91 | 91 | 91 | 88 |
| 1 | 105 | 99 | 95 | 90 | 101 | 96 | 92 | 88 | 89 | 86 | 83 | 84 | 81 | 78 | 78 | 76 | 74 | 71 |
| 2 | 95 | 86 | 79 | 72 | 91 | 83 | 76 | 71 | 77 | 72 | 67 | 72 | 68 | 64 | 68 | 64 | 61 | 58 |
| 3 | 86 | 75 | 66 | 60 | 82 | 72 | 65 | 58 | 68 | 61 | 56 | 63 | 58 | 53 | 59 | 55 | 51 | 48 |
| 4 | 78 | 66 | 57 | 50 | 75 | 64 | 56 | 49 | 60 | 53 | 47 | 56 | 50 | 45 | 53 | 48 | 43 | 41 |
| 5 | 72 | 59 | 50 | 43 | 69 | 57 | 48 | 42 | 54 | 46 | 41 | 50 | 44 | 39 | 47 | 42 | 38 | 35 |
| 6 | 66 | 53 | 44 | 37 | 64 | 51 | 43 | 37 | 48 | 41 | 35 | 45 | 39 | 34 | 43 | 37 | 33 | 31 |
| 7 | 61 | 48 | 39 | 33 | 59 | 46 | 38 | 32 | 44 | 36 | 31 | 41 | 35 | 30 | 39 | 33 | 29 | 27 |
| 8 | 57 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 40 | 33 | 28 | 38 | 31 | 27 | 36 | 30 | 26 | 24 |
| 9 | 53 | 40 | 32 | 26 | 51 | 39 | 31 | 26 | 37 | 30 | 25 | 35 | 29 | 24 | 33 | 27 | 23 | 21 |
| 10 | 50 | 37 | 29 | 23 | 48 | 36 | 28 | 23 | 34 | 27 | 22 | 32 | 26 | 22 | 31 | 25 | 21 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18857 | 18857 | 18857 |
| 5° | 18967 | 18579 | 18610 |
| 10° | 18871 | 18410 | 18417 |
| 15° | 18725 | 18207 | 18238 |
| 20° | 18486 | 17961 | 18033 |
| 25° | 18197 | 17711 | 17758 |
| 30° | 17881 | 17461 | 17524 |
| 35° | 17478 | 17160 | 17361 |
| 40° | 17090 | 16912 | 17108 |
| 45° | 16618 | 16624 | 16897 |
| 50° | 16069 | 16319 | 16628 |
| 55° | 15552 | 15941 | 16388 |
| 60° | 14955 | 15539 | 16094 |
| 65° | 14228 | 15078 | 15807 |
| 70° | 13305 | 14576 | 15481 |
| 75° | 11984 | 14030 | 15370 |
| 80° | 10145 | 13713 | 15246 |
| 85° | 7553 | 14068 | 16070 |



TEST NUMBER: P567447

CATALOG NUMBER: 8SNX-162HL-FDL-UNV-L935-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 332.6 | 2.6 |
| 10°-20° | 956.8 | 7.6 |
| 20°-30° | 1455.6 | 11.5 |
| 30°-40° | 1769.8 | 14.0 |
| 40°-50° | 1872.4 | 14.8 |
| 50°-60° | 1755.2 | 13.9 |
| 60°-70° | 1443.9 | 11.4 |
| 70°-80° | 999.1 | 7.9 |
| 80°-90° | 555.6 | 4.4 |
| 90°-100° | 366.0 | 2.9 |
| 100°-110° | 328.2 | 2.6 |
| 110°-120° | 271.6 | 2.2 |
| 120°-130° | 210.0 | 1.7 |
| 130°-140° | 148.7 | 1.2 |
| 140°-150° | 89.7 | 0.7 |
| 150°-160° | 43.1 | 0.3 |
| 160°-170° | 14.1 | 0.1 |
| 170°-180° | 1.7 | 0.0 |
| 0°-30° | 2745.0 | 21.8 |
| 0°-40° | 4514.8 | 35.8 |
| 0°-60° | 8142.4 | 64.6 |
| 0°-90° | 11141.0 | 88.3 |
| 90°-120° | 965.8 | 7.7 |
| 90°-150° | 1414.2 | 11.2 |
| 90°-180° | 1473.0 | 11.7 |
| 0°-180° | 12614.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3504 | 3504 | 3504 | 3504 | 3504 | |
| 5° | 3512 | 3506 | 3476 | 3504 | 3495 | 333 |
| 15° | 3365 | 3376 | 3374 | 3419 | 3419 | 949 |
| 25° | 3072 | 3115 | 3152 | 3221 | 3223 | 1416 |
| 35° | 2670 | 2741 | 2834 | 2925 | 2951 | 1671 |
| 45° | 2195 | 2309 | 2450 | 2560 | 2590 | 1692 |
| 55° | 1670 | 1819 | 1994 | 2119 | 2162 | 1495 |
| 65° | 1130 | 1292 | 1493 | 1640 | 1685 | 1120 |
| 75° | 588 | 758 | 981 | 1136 | 1199 | 623 |
| 85° | 130 | 322 | 544 | 696 | 756 | 149 |
| 90° | 2 | 181 | 384 | 529 | 581 | 9 |
| 95° | 2 | 173 | 374 | 512 | 562 | 2 |
| 105° | 2 | 149 | 350 | 482 | 525 | 2 |
| 115° | 4 | 130 | 296 | 428 | 475 | 3 |
| 125° | 4 | 110 | 253 | 365 | 410 | 4 |
| 135° | 4 | 86 | 212 | 300 | 337 | 3 |
| 145° | 4 | 63 | 147 | 227 | 255 | 3 |
| 155° | 6 | 43 | 91 | 145 | 168 | 3 |
| 165° | 6 | 28 | 50 | 67 | 86 | 2 |
| 175° | 6 | 11 | 15 | 15 | 9 | 1 |
| 180° | 4 | 4 | 4 | 4 | 4 | |



TEST NUMBER: P567447

CATALOG NUMBER: 8SNX-162HL-FDL-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3503.7 | 3503.7 | 3503.7 | 3503.7 | 3503.7 |
| 2.5° | 3527.4 | 3516.6 | 3479.9 | 3503.7 | 3492.9 |
| 5° | 3512.3 | 3505.8 | 3475.6 | 3503.7 | 3495.0 |
| 7.5° | 3488.6 | 3486.4 | 3462.6 | 3495.0 | 3486.4 |
| 10° | 3456.2 | 3460.5 | 3441.0 | 3475.6 | 3469.1 |
| 12.5° | 3415.1 | 3421.6 | 3413.0 | 3451.8 | 3447.5 |
| 15° | 3365.4 | 3376.2 | 3374.1 | 3419.4 | 3419.4 |
| 17.5° | 3305.0 | 3320.1 | 3328.7 | 3380.6 | 3380.6 |
| 20° | 3233.7 | 3257.4 | 3274.7 | 3330.9 | 3339.5 |
| 22.5° | 3162.4 | 3190.5 | 3216.4 | 3274.7 | 3287.7 |
| 25° | 3071.7 | 3114.9 | 3151.6 | 3220.7 | 3222.9 |
| 27.5° | 2983.1 | 3030.6 | 3080.3 | 3147.3 | 3153.7 |
| 30° | 2885.9 | 2946.4 | 3006.9 | 3071.7 | 3091.1 |
| 32.5° | 2782.2 | 2849.2 | 2916.1 | 3002.5 | 3028.5 |
| 35° | 2669.9 | 2741.2 | 2834.1 | 2924.8 | 2950.7 |
| 37.5° | 2557.6 | 2637.5 | 2745.5 | 2838.4 | 2862.1 |
| 40° | 2443.1 | 2531.6 | 2652.6 | 2747.6 | 2775.7 |
| 42.5° | 2315.6 | 2423.6 | 2553.2 | 2654.8 | 2687.2 |
| 45° | 2194.7 | 2309.1 | 2449.6 | 2559.7 | 2590.0 |
| 47.5° | 2067.2 | 2188.2 | 2339.4 | 2456.0 | 2490.6 |
| 50° | 1931.1 | 2069.4 | 2231.4 | 2348.0 | 2380.4 |
| 52.5° | 1803.7 | 1944.1 | 2114.7 | 2235.7 | 2281.1 |
| 55° | 1669.8 | 1818.8 | 1993.8 | 2119.1 | 2162.3 |
| 57.5° | 1544.5 | 1687.0 | 1875.0 | 2000.3 | 2054.3 |
| 60° | 1401.9 | 1559.6 | 1747.5 | 1883.6 | 1926.8 |
| 62.5° | 1268.0 | 1427.8 | 1622.2 | 1762.6 | 1812.3 |
| 65° | 1129.7 | 1291.7 | 1492.6 | 1639.5 | 1684.9 |
| 67.5° | 1000.1 | 1160.0 | 1365.2 | 1509.9 | 1568.2 |
| 70° | 857.6 | 1026.0 | 1235.6 | 1384.6 | 1434.3 |
| 72.5° | 717.2 | 892.1 | 1106.0 | 1265.8 | 1322.0 |
| 75° | 587.5 | 758.2 | 980.7 | 1136.2 | 1198.9 |
| 77.5° | 462.3 | 635.1 | 859.7 | 1019.6 | 1073.6 |
| 80° | 337.0 | 518.4 | 747.4 | 905.1 | 956.9 |
| 82.5° | 222.5 | 412.6 | 639.4 | 797.1 | 853.2 |
| 85° | 129.6 | 321.9 | 544.3 | 695.6 | 756.0 |
| 87.5° | 56.2 | 244.1 | 455.8 | 604.8 | 654.5 |
| 90° | 2.2 | 181.4 | 384.5 | 529.2 | 581.1 |
| 92.5° | 2.2 | 177.1 | 375.9 | 518.4 | 568.1 |
| 95° | 2.2 | 172.8 | 373.7 | 511.9 | 561.6 |
| 97.5° | 2.2 | 170.6 | 369.4 | 507.6 | 555.1 |
| 100° | 2.2 | 164.2 | 362.9 | 499.0 | 546.5 |
| 102.5° | 2.2 | 155.5 | 356.4 | 490.3 | 535.7 |
| 105° | 2.2 | 149.0 | 349.9 | 481.7 | 524.9 |
| 107.5° | 2.2 | 142.6 | 339.1 | 470.9 | 514.1 |
| 110° | 2.2 | 136.1 | 321.9 | 460.1 | 503.3 |



TEST NUMBER: P567447

CATALOG NUMBER: 8SNX-162HL-FDL-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.2 | 133.9 | 308.9 | 445.0 | 490.3 |
| 115° | 4.3 | 129.6 | 295.9 | 427.7 | 475.2 |
| 117.5° | 4.3 | 127.4 | 285.1 | 410.4 | 460.1 |
| 120° | 4.3 | 121.0 | 274.3 | 395.3 | 442.8 |
| 122.5° | 4.3 | 114.5 | 263.5 | 380.2 | 427.7 |
| 125° | 4.3 | 110.2 | 252.7 | 365.1 | 410.4 |
| 127.5° | 4.3 | 103.7 | 244.1 | 349.9 | 391.0 |
| 130° | 4.3 | 99.4 | 233.3 | 332.7 | 373.7 |
| 132.5° | 4.3 | 92.9 | 222.5 | 315.4 | 354.3 |
| 135° | 4.3 | 86.4 | 211.7 | 300.3 | 337.0 |
| 137.5° | 4.3 | 77.8 | 198.7 | 283.0 | 317.5 |
| 140° | 4.3 | 71.3 | 181.4 | 265.7 | 298.1 |
| 142.5° | 4.3 | 67.0 | 164.2 | 246.3 | 276.5 |
| 145° | 4.3 | 62.6 | 146.9 | 226.8 | 254.9 |
| 147.5° | 4.3 | 58.3 | 131.8 | 207.4 | 233.3 |
| 150° | 4.3 | 51.8 | 116.6 | 190.1 | 211.7 |
| 152.5° | 6.5 | 47.5 | 103.7 | 168.5 | 190.1 |
| 155° | 6.5 | 43.2 | 90.7 | 144.7 | 168.5 |
| 157.5° | 6.5 | 38.9 | 77.8 | 121.0 | 146.9 |
| 160° | 6.5 | 34.6 | 67.0 | 99.4 | 125.3 |
| 162.5° | 6.5 | 32.4 | 58.3 | 82.1 | 105.8 |
| 165° | 6.5 | 28.1 | 49.7 | 67.0 | 86.4 |
| 167.5° | 6.5 | 21.6 | 41.0 | 51.8 | 71.3 |
| 170° | 6.5 | 17.3 | 32.4 | 36.7 | 54.0 |
| 172.5° | 6.5 | 13.0 | 23.8 | 25.9 | 28.1 |
| 175° | 6.5 | 10.8 | 15.1 | 15.1 | 8.6 |
| 177.5° | 6.5 | 8.6 | 8.6 | 8.6 | 4.3 |
| 180° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |

(END OF REPORT)