

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: P567463

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567463
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: 8SNX-162HL-LN-UNV-L935-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

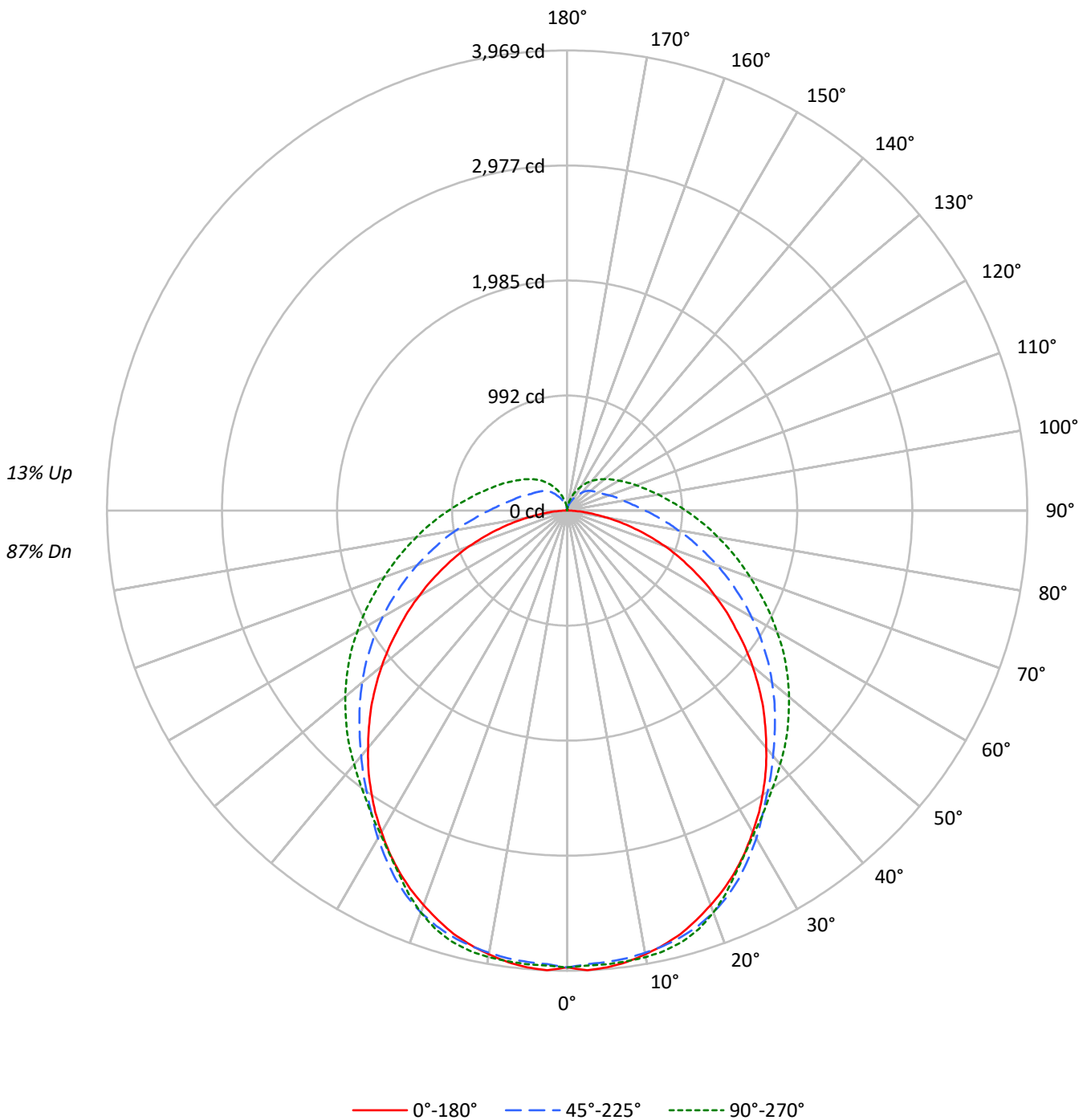
Lumens per Lamp: N/A
Luminaire Lumens: 14222.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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

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

Luminous Intensity Polar Plot





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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° | 21204 | 21204 | 21204 |
| 5° | 21324 | 20254 | 20050 |
| 10° | 21163 | 19491 | 19124 |
| 15° | 20948 | 18768 | 18191 |
| 20° | 20586 | 17952 | 17003 |
| 25° | 20193 | 16959 | 15608 |
| 30° | 19662 | 15842 | 14444 |
| 35° | 19096 | 14702 | 13576 |
| 40° | 18447 | 13788 | 12873 |
| 45° | 17815 | 12978 | 12266 |
| 50° | 17059 | 12232 | 11655 |
| 55° | 16170 | 11484 | 11056 |
| 60° | 15330 | 10736 | 10431 |
| 65° | 14401 | 9982 | 9857 |
| 70° | 13349 | 9275 | 9339 |
| 75° | 11677 | 8587 | 8912 |
| 80° | 9491 | 7996 | 8550 |
| 85° | 6853 | 7584 | 8343 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 374.3 | 2.6 |
| 10°-20° | 1076.1 | 7.6 |
| 20°-30° | 1602.3 | 11.3 |
| 30°-40° | 1890.7 | 13.3 |
| 40°-50° | 1971.8 | 13.9 |
| 50°-60° | 1853.0 | 13.0 |
| 60°-70° | 1564.8 | 11.0 |
| 70°-80° | 1182.4 | 8.3 |
| 80°-90° | 815.0 | 5.7 |
| 90°-100° | 570.3 | 4.0 |
| 100°-110° | 425.6 | 3.0 |
| 110°-120° | 320.9 | 2.3 |
| 120°-130° | 239.3 | 1.7 |
| 130°-140° | 168.0 | 1.2 |
| 140°-150° | 101.5 | 0.7 |
| 150°-160° | 48.6 | 0.3 |
| 160°-170° | 15.6 | 0.1 |
| 170°-180° | 1.9 | 0.0 |
| 0°-30° | 3052.7 | 21.5 |
| 0°-40° | 4943.4 | 34.8 |
| 0°-60° | 8768.2 | 61.7 |
| 0°-90° | 12330.4 | 86.7 |
| 90°-120° | 1316.8 | 9.3 |
| 90°-150° | 1825.6 | 12.8 |
| 90°-180° | 1892.0 | 13.3 |
| 0°-180° | 14222.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3940 | 3940 | 3940 | 3940 | 3940 | |
| 5° | 3954 | 3947 | 3908 | 3937 | 3928 | 375 |
| 15° | 3781 | 3798 | 3807 | 3855 | 3848 | 1065 |
| 25° | 3433 | 3503 | 3503 | 3472 | 3446 | 1580 |
| 35° | 2949 | 3057 | 2999 | 3024 | 3031 | 1844 |
| 45° | 2389 | 2508 | 2534 | 2638 | 2686 | 1840 |
| 55° | 1775 | 1926 | 2074 | 2240 | 2300 | 1592 |
| 65° | 1181 | 1370 | 1601 | 1811 | 1881 | 1173 |
| 75° | 605 | 839 | 1162 | 1406 | 1495 | 644 |
| 85° | 137 | 432 | 805 | 1070 | 1165 | 154 |
| 90° | 2 | 306 | 673 | 931 | 1022 | 10 |
| 95° | 2 | 239 | 569 | 815 | 899 | 2 |
| 105° | 5 | 171 | 439 | 636 | 709 | 5 |
| 115° | 5 | 147 | 340 | 506 | 571 | 5 |
| 125° | 7 | 125 | 287 | 415 | 468 | 6 |
| 135° | 7 | 96 | 239 | 338 | 378 | 6 |
| 145° | 10 | 70 | 166 | 258 | 289 | 5 |
| 155° | 10 | 46 | 101 | 164 | 190 | 4 |
| 165° | 12 | 29 | 53 | 72 | 96 | 3 |
| 175° | 12 | 12 | 14 | 14 | 7 | 1 |
| 180° | 7 | 7 | 7 | 7 | 7 | |



TEST NUMBER: P567463

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

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3939.8 | 3939.8 | 3939.8 | 3939.8 | 3939.8 |
| 2.5° | 3968.7 | 3959.0 | 3915.6 | 3939.8 | 3927.7 |
| 5° | 3954.2 | 3947.0 | 3908.4 | 3937.3 | 3927.7 |
| 7.5° | 3927.7 | 3925.3 | 3896.4 | 3930.1 | 3920.5 |
| 10° | 3886.7 | 3893.9 | 3872.2 | 3918.1 | 3910.8 |
| 12.5° | 3838.5 | 3853.0 | 3845.7 | 3896.4 | 3889.1 |
| 15° | 3780.6 | 3797.5 | 3807.1 | 3855.4 | 3848.1 |
| 17.5° | 3703.5 | 3734.8 | 3756.5 | 3795.1 | 3783.0 |
| 20° | 3621.5 | 3664.9 | 3689.0 | 3708.3 | 3689.0 |
| 22.5° | 3532.3 | 3590.1 | 3604.6 | 3595.0 | 3575.7 |
| 25° | 3433.4 | 3503.3 | 3503.3 | 3472.0 | 3445.5 |
| 27.5° | 3322.5 | 3409.3 | 3385.2 | 3349.0 | 3327.3 |
| 30° | 3202.0 | 3305.6 | 3264.6 | 3223.7 | 3218.8 |
| 32.5° | 3081.4 | 3189.9 | 3129.6 | 3120.0 | 3127.2 |
| 35° | 2948.8 | 3057.3 | 2999.4 | 3023.5 | 3030.8 |
| 37.5° | 2816.2 | 2924.7 | 2886.1 | 2922.3 | 2944.0 |
| 40° | 2671.5 | 2787.2 | 2763.1 | 2828.2 | 2857.2 |
| 42.5° | 2529.3 | 2649.8 | 2647.4 | 2731.8 | 2775.2 |
| 45° | 2389.4 | 2507.6 | 2534.1 | 2637.8 | 2686.0 |
| 47.5° | 2237.5 | 2358.1 | 2423.2 | 2543.7 | 2591.9 |
| 50° | 2088.0 | 2218.2 | 2307.4 | 2442.5 | 2497.9 |
| 52.5° | 1933.7 | 2071.1 | 2194.1 | 2343.6 | 2401.5 |
| 55° | 1774.6 | 1926.5 | 2073.6 | 2239.9 | 2300.2 |
| 57.5° | 1632.3 | 1786.6 | 1960.2 | 2131.4 | 2201.3 |
| 60° | 1475.6 | 1646.8 | 1837.3 | 2018.1 | 2088.0 |
| 62.5° | 1333.3 | 1509.4 | 1721.5 | 1912.0 | 1986.8 |
| 65° | 1181.4 | 1369.5 | 1601.0 | 1810.7 | 1880.7 |
| 67.5° | 1041.6 | 1234.5 | 1487.7 | 1699.8 | 1777.0 |
| 70° | 896.9 | 1101.9 | 1376.7 | 1601.0 | 1680.5 |
| 72.5° | 747.4 | 964.4 | 1265.8 | 1504.5 | 1586.5 |
| 75° | 605.2 | 839.1 | 1162.2 | 1405.7 | 1494.9 |
| 77.5° | 472.6 | 718.5 | 1068.1 | 1318.9 | 1405.7 |
| 80° | 342.4 | 610.0 | 969.3 | 1229.7 | 1318.9 |
| 82.5° | 226.6 | 516.0 | 889.7 | 1150.1 | 1244.1 |
| 85° | 137.4 | 431.6 | 805.3 | 1070.5 | 1164.6 |
| 87.5° | 62.7 | 361.7 | 737.8 | 1000.6 | 1092.2 |
| 90° | 2.4 | 306.2 | 672.7 | 930.7 | 1022.3 |
| 92.5° | 2.4 | 267.6 | 619.7 | 870.4 | 959.6 |
| 95° | 2.4 | 238.7 | 569.0 | 815.0 | 899.3 |
| 97.5° | 2.4 | 219.4 | 530.4 | 761.9 | 843.9 |
| 100° | 2.4 | 200.1 | 491.9 | 713.7 | 798.1 |
| 102.5° | 4.8 | 183.2 | 462.9 | 670.3 | 749.9 |
| 105° | 4.8 | 171.2 | 438.8 | 636.5 | 708.9 |
| 107.5° | 4.8 | 164.0 | 412.3 | 602.8 | 670.3 |
| 110° | 4.8 | 156.7 | 383.4 | 569.0 | 636.5 |



TEST NUMBER: P567463

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

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|-------|-------|-------|
| 112.5° | 4.8 | 151.9 | 361.7 | 540.1 | 605.2 |
| 115° | 4.8 | 147.1 | 340.0 | 506.3 | 571.4 |
| 117.5° | 4.8 | 144.7 | 327.9 | 479.8 | 542.5 |
| 120° | 7.2 | 137.4 | 313.4 | 455.7 | 516.0 |
| 122.5° | 7.2 | 130.2 | 299.0 | 436.4 | 489.5 |
| 125° | 7.2 | 125.4 | 286.9 | 414.7 | 467.8 |
| 127.5° | 7.2 | 118.1 | 274.9 | 395.4 | 443.6 |
| 130° | 7.2 | 110.9 | 265.2 | 376.1 | 421.9 |
| 132.5° | 7.2 | 103.7 | 253.2 | 356.8 | 400.2 |
| 135° | 7.2 | 96.4 | 238.7 | 337.6 | 378.5 |
| 137.5° | 7.2 | 89.2 | 224.2 | 318.3 | 356.8 |
| 140° | 7.2 | 82.0 | 204.9 | 299.0 | 335.1 |
| 142.5° | 7.2 | 74.7 | 185.7 | 279.7 | 311.0 |
| 145° | 9.6 | 69.9 | 166.4 | 258.0 | 289.3 |
| 147.5° | 9.6 | 62.7 | 147.1 | 236.3 | 262.8 |
| 150° | 9.6 | 57.9 | 132.6 | 214.6 | 238.7 |
| 152.5° | 9.6 | 50.6 | 118.1 | 190.5 | 214.6 |
| 155° | 9.6 | 45.8 | 101.3 | 164.0 | 190.5 |
| 157.5° | 9.6 | 41.0 | 86.8 | 137.4 | 166.4 |
| 160° | 9.6 | 38.6 | 74.7 | 113.3 | 142.3 |
| 162.5° | 12.1 | 33.8 | 62.7 | 91.6 | 118.1 |
| 165° | 12.1 | 28.9 | 53.0 | 72.3 | 96.4 |
| 167.5° | 12.1 | 24.1 | 43.4 | 55.5 | 74.7 |
| 170° | 12.1 | 19.3 | 33.8 | 38.6 | 57.9 |
| 172.5° | 12.1 | 14.5 | 24.1 | 26.5 | 28.9 |
| 175° | 12.1 | 12.1 | 14.5 | 14.5 | 7.2 |
| 177.5° | 12.1 | 12.1 | 9.6 | 7.2 | 2.4 |
| 180° | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |

(END OF REPORT)