

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: P567618

Luminaire Tested: **8SNX-180HL-SLW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567618
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-180HL-SLW-UNV-L830-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

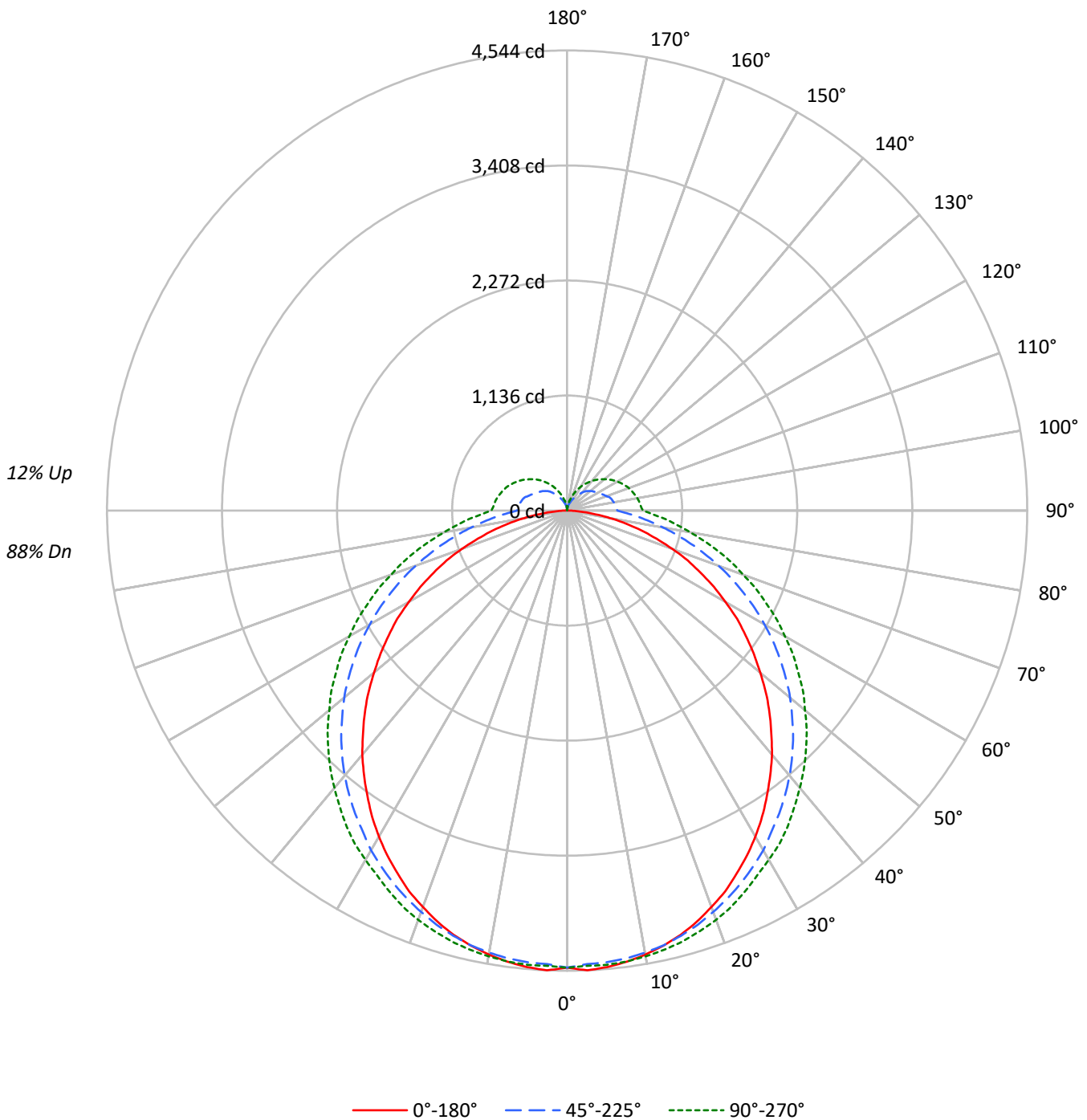
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16249.0 lumens
Efficiency: N/A
Efficacy: 126.2 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: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 128.8
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: P567618
CATALOG NUMBER: 8SNX-180HL-SLW-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567618

CATALOG NUMBER: 8SNX-180HL-SLW-UNV-L830-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° | 24290 | 24290 | 24290 |
| 5° | 24422 | 23686 | 23637 |
| 10° | 24286 | 23232 | 23071 |
| 15° | 24089 | 22742 | 22538 |
| 20° | 23768 | 22204 | 21982 |
| 25° | 23384 | 21663 | 21349 |
| 30° | 22965 | 21119 | 20765 |
| 35° | 22434 | 20509 | 20263 |
| 40° | 21920 | 19953 | 19647 |
| 45° | 21297 | 19335 | 19064 |
| 50° | 20574 | 18678 | 18396 |
| 55° | 19888 | 17907 | 17729 |
| 60° | 19095 | 17072 | 16963 |
| 65° | 18130 | 16118 | 16145 |
| 70° | 16902 | 15041 | 15204 |
| 75° | 15152 | 13800 | 14342 |
| 80° | 12707 | 12575 | 13253 |
| 85° | 9219 | 11494 | 12543 |



TEST NUMBER: P567618

CATALOG NUMBER: 8SNX-180HL-SLW-UNV-L830-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 428.5 | 2.6 |
| 10°-20° | 1232.5 | 7.6 |
| 20°-30° | 1875.0 | 11.5 |
| 30°-40° | 2279.8 | 14.0 |
| 40°-50° | 2412.0 | 14.8 |
| 50°-60° | 2260.9 | 13.9 |
| 60°-70° | 1860.0 | 11.4 |
| 70°-80° | 1287.0 | 7.9 |
| 80°-90° | 715.6 | 4.4 |
| 90°-100° | 471.5 | 2.9 |
| 100°-110° | 422.8 | 2.6 |
| 110°-120° | 349.9 | 2.2 |
| 120°-130° | 270.5 | 1.7 |
| 130°-140° | 191.5 | 1.2 |
| 140°-150° | 115.5 | 0.7 |
| 150°-160° | 55.5 | 0.3 |
| 160°-170° | 18.2 | 0.1 |
| 170°-180° | 2.2 | 0.0 |
| 0°-30° | 3536.0 | 21.8 |
| 0°-40° | 5815.9 | 35.8 |
| 0°-60° | 10488.8 | 64.6 |
| 0°-90° | 14351.4 | 88.3 |
| 90°-120° | 1244.2 | 7.7 |
| 90°-150° | 1821.7 | 11.2 |
| 90°-180° | 1898.0 | 11.7 |
| 0°-180° | 16249.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4513 | 4513 | 4513 | 4513 | 4513 | |
| 5° | 4524 | 4516 | 4477 | 4513 | 4502 | 429 |
| 15° | 4335 | 4349 | 4346 | 4405 | 4405 | 1222 |
| 25° | 3957 | 4012 | 4060 | 4149 | 4152 | 1824 |
| 35° | 3439 | 3531 | 3651 | 3768 | 3801 | 2152 |
| 45° | 2827 | 2975 | 3155 | 3297 | 3336 | 2179 |
| 55° | 2151 | 2343 | 2568 | 2730 | 2785 | 1925 |
| 65° | 1455 | 1664 | 1923 | 2112 | 2170 | 1443 |
| 75° | 757 | 977 | 1263 | 1464 | 1544 | 803 |
| 85° | 167 | 415 | 701 | 896 | 974 | 192 |
| 90° | 3 | 234 | 495 | 682 | 748 | 11 |
| 95° | 3 | 223 | 481 | 660 | 724 | 2 |
| 105° | 3 | 192 | 451 | 620 | 676 | 3 |
| 115° | 6 | 167 | 381 | 551 | 612 | 4 |
| 125° | 6 | 142 | 326 | 470 | 529 | 5 |
| 135° | 6 | 111 | 273 | 387 | 434 | 4 |
| 145° | 6 | 81 | 189 | 292 | 328 | 4 |
| 155° | 8 | 56 | 117 | 186 | 217 | 4 |
| 165° | 8 | 36 | 64 | 86 | 111 | 2 |
| 175° | 8 | 14 | 20 | 20 | 11 | 1 |
| 180° | 6 | 6 | 6 | 6 | 6 | |



TEST NUMBER: P567618

CATALOG NUMBER: 8SNX-180HL-SLW-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4513.3 | 4513.3 | 4513.3 | 4513.3 | 4513.3 |
| 2.5° | 4544.0 | 4530.0 | 4482.7 | 4513.3 | 4499.4 |
| 5° | 4524.5 | 4516.1 | 4477.2 | 4513.3 | 4502.2 |
| 7.5° | 4493.9 | 4491.1 | 4460.5 | 4502.2 | 4491.1 |
| 10° | 4452.1 | 4457.7 | 4432.6 | 4477.2 | 4468.8 |
| 12.5° | 4399.3 | 4407.6 | 4396.5 | 4446.6 | 4441.0 |
| 15° | 4335.3 | 4349.2 | 4346.4 | 4404.8 | 4404.8 |
| 17.5° | 4257.3 | 4276.8 | 4288.0 | 4354.7 | 4354.7 |
| 20° | 4165.5 | 4196.1 | 4218.4 | 4290.7 | 4301.9 |
| 22.5° | 4073.7 | 4109.9 | 4143.3 | 4218.4 | 4235.1 |
| 25° | 3956.8 | 4012.5 | 4059.8 | 4148.8 | 4151.6 |
| 27.5° | 3842.7 | 3904.0 | 3968.0 | 4054.2 | 4062.6 |
| 30° | 3717.5 | 3795.4 | 3873.4 | 3956.8 | 3981.9 |
| 32.5° | 3584.0 | 3670.2 | 3756.5 | 3867.8 | 3901.2 |
| 35° | 3439.3 | 3531.1 | 3650.7 | 3767.6 | 3801.0 |
| 37.5° | 3294.6 | 3397.5 | 3536.7 | 3656.3 | 3686.9 |
| 40° | 3147.1 | 3261.2 | 3417.0 | 3539.4 | 3575.6 |
| 42.5° | 2982.9 | 3122.1 | 3289.0 | 3419.8 | 3461.5 |
| 45° | 2827.1 | 2974.6 | 3155.4 | 3297.4 | 3336.3 |
| 47.5° | 2662.9 | 2818.8 | 3013.5 | 3163.8 | 3208.3 |
| 50° | 2487.6 | 2665.7 | 2874.4 | 3024.7 | 3066.4 |
| 52.5° | 2323.5 | 2504.3 | 2724.1 | 2880.0 | 2938.4 |
| 55° | 2150.9 | 2342.9 | 2568.3 | 2729.7 | 2785.4 |
| 57.5° | 1989.5 | 2173.2 | 2415.3 | 2576.7 | 2646.2 |
| 60° | 1805.9 | 2009.0 | 2251.1 | 2426.4 | 2482.1 |
| 62.5° | 1633.4 | 1839.3 | 2089.7 | 2270.6 | 2334.6 |
| 65° | 1455.3 | 1664.0 | 1922.8 | 2112.0 | 2170.4 |
| 67.5° | 1288.3 | 1494.2 | 1758.6 | 1945.0 | 2020.2 |
| 70° | 1104.7 | 1321.7 | 1591.6 | 1783.6 | 1847.6 |
| 72.5° | 923.8 | 1149.2 | 1424.7 | 1630.6 | 1702.9 |
| 75° | 756.9 | 976.7 | 1263.3 | 1463.6 | 1544.3 |
| 77.5° | 595.5 | 818.1 | 1107.5 | 1313.4 | 1382.9 |
| 80° | 434.1 | 667.8 | 962.8 | 1165.9 | 1232.7 |
| 82.5° | 286.6 | 531.5 | 823.6 | 1026.8 | 1099.1 |
| 85° | 167.0 | 414.6 | 701.2 | 896.0 | 973.9 |
| 87.5° | 72.3 | 314.4 | 587.1 | 779.1 | 843.1 |
| 90° | 2.8 | 233.7 | 495.3 | 681.7 | 748.5 |
| 92.5° | 2.8 | 228.2 | 484.2 | 667.8 | 731.8 |
| 95° | 2.8 | 222.6 | 481.4 | 659.5 | 723.5 |
| 97.5° | 2.8 | 219.8 | 475.8 | 653.9 | 715.1 |
| 100° | 2.8 | 211.5 | 467.5 | 642.8 | 704.0 |
| 102.5° | 2.8 | 200.3 | 459.1 | 631.6 | 690.1 |
| 105° | 2.8 | 192.0 | 450.8 | 620.5 | 676.2 |
| 107.5° | 2.8 | 183.7 | 436.9 | 606.6 | 662.3 |
| 110° | 2.8 | 175.3 | 414.6 | 592.7 | 648.3 |



TEST NUMBER: P567618

CATALOG NUMBER: 8SNX-180HL-SLW-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.8 | 172.5 | 397.9 | 573.2 | 631.6 |
| 115° | 5.6 | 167.0 | 381.2 | 551.0 | 612.2 |
| 117.5° | 5.6 | 164.2 | 367.3 | 528.7 | 592.7 |
| 120° | 5.6 | 155.8 | 353.4 | 509.2 | 570.4 |
| 122.5° | 5.6 | 147.5 | 339.5 | 489.7 | 551.0 |
| 125° | 5.6 | 141.9 | 325.6 | 470.3 | 528.7 |
| 127.5° | 5.6 | 133.6 | 314.4 | 450.8 | 503.6 |
| 130° | 5.6 | 128.0 | 300.5 | 428.5 | 481.4 |
| 132.5° | 5.6 | 119.7 | 286.6 | 406.3 | 456.3 |
| 135° | 5.6 | 111.3 | 272.7 | 386.8 | 434.1 |
| 137.5° | 5.6 | 100.2 | 256.0 | 364.5 | 409.0 |
| 140° | 5.6 | 91.8 | 233.7 | 342.3 | 384.0 |
| 142.5° | 5.6 | 86.3 | 211.5 | 317.2 | 356.2 |
| 145° | 5.6 | 80.7 | 189.2 | 292.2 | 328.3 |
| 147.5° | 5.6 | 75.1 | 169.7 | 267.1 | 300.5 |
| 150° | 5.6 | 66.8 | 150.3 | 244.9 | 272.7 |
| 152.5° | 8.3 | 61.2 | 133.6 | 217.0 | 244.9 |
| 155° | 8.3 | 55.7 | 116.9 | 186.4 | 217.0 |
| 157.5° | 8.3 | 50.1 | 100.2 | 155.8 | 189.2 |
| 160° | 8.3 | 44.5 | 86.3 | 128.0 | 161.4 |
| 162.5° | 8.3 | 41.7 | 75.1 | 105.7 | 136.3 |
| 165° | 8.3 | 36.2 | 64.0 | 86.3 | 111.3 |
| 167.5° | 8.3 | 27.8 | 52.9 | 66.8 | 91.8 |
| 170° | 8.3 | 22.3 | 41.7 | 47.3 | 69.6 |
| 172.5° | 8.3 | 16.7 | 30.6 | 33.4 | 36.2 |
| 175° | 8.3 | 13.9 | 19.5 | 19.5 | 11.1 |
| 177.5° | 8.3 | 11.1 | 11.1 | 11.1 | 5.6 |
| 180° | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |

(END OF REPORT)