

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: P565730

Luminaire Tested: **2SNX-40HL-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565730
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: 2SNX-40HL-UNV-L830-CD
Description: 2FT 4000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

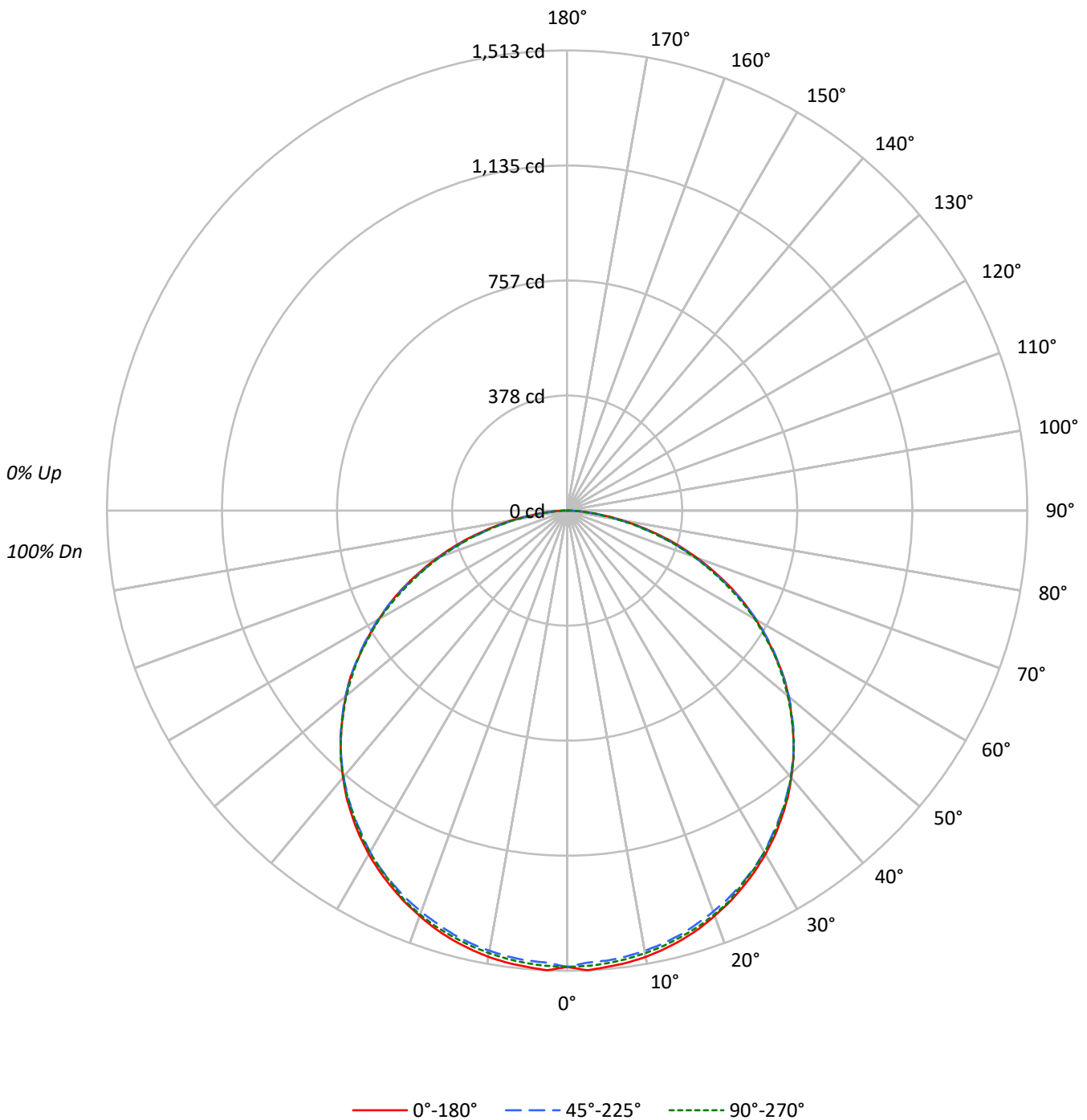
Lumens per Lamp: N/A
Luminaire Lumens: 4490.0 lumens
Efficiency: N/A
Efficacy: 163.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 27.55
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

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Luminous Intensity Polar Plot





TEST NUMBER: P565730

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 32292 | 32292 | 32292 |
| 5° | 32551 | 32100 | 32290 |
| 10° | 32567 | 32123 | 32302 |
| 15° | 32553 | 32156 | 32341 |
| 20° | 32488 | 32153 | 32385 |
| 25° | 32447 | 32191 | 32252 |
| 30° | 32425 | 32221 | 32254 |
| 35° | 32346 | 32146 | 32196 |
| 40° | 32217 | 32147 | 32163 |
| 45° | 32040 | 32098 | 32040 |
| 50° | 31823 | 31890 | 31720 |
| 55° | 31328 | 31497 | 31328 |
| 60° | 30802 | 30940 | 30664 |
| 65° | 30039 | 29682 | 29361 |
| 70° | 28608 | 27966 | 27890 |
| 75° | 26400 | 25128 | 25236 |
| 80° | 22588 | 21175 | 21559 |
| 85° | 16772 | 16475 | 15364 |



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CATALOG NUMBER: 2SNX-40HL-UNV-L830-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 142.3 | 3.2 |
| 10°-20° | 410.2 | 9.1 |
| 20°-30° | 627.9 | 14.0 |
| 30°-40° | 768.1 | 17.1 |
| 40°-50° | 812.4 | 18.1 |
| 50°-60° | 748.6 | 16.7 |
| 60°-70° | 576.1 | 12.8 |
| 70°-80° | 323.7 | 7.2 |
| 80°-90° | 80.7 | 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° | 1180.4 | 26.3 |
| 0°-40° | 1948.5 | 43.4 |
| 0°-60° | 3509.5 | 78.2 |
| 0°-90° | 4490.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4490.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1500 | 1500 | 1500 | 1500 | 1500 | |
| 5° | 1506 | 1502 | 1485 | 1499 | 1494 | 143 |
| 15° | 1461 | 1457 | 1443 | 1456 | 1451 | 412 |
| 25° | 1366 | 1365 | 1355 | 1365 | 1358 | 630 |
| 35° | 1231 | 1229 | 1223 | 1229 | 1225 | 770 |
| 45° | 1052 | 1056 | 1054 | 1052 | 1052 | 812 |
| 55° | 835 | 842 | 839 | 837 | 835 | 748 |
| 65° | 590 | 591 | 583 | 574 | 576 | 582 |
| 75° | 317 | 312 | 302 | 298 | 303 | 334 |
| 85° | 68 | 67 | 67 | 65 | 62 | 84 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P565730

CATALOG NUMBER: 2SNX-40HL-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1500.0 | 1500.0 | 1500.0 | 1500.0 | 1500.0 |
| 2.5° | 1512.7 | 1504.4 | 1487.9 | 1502.5 | 1498.7 |
| 5° | 1506.3 | 1501.9 | 1485.4 | 1498.7 | 1494.2 |
| 7.5° | 1500.0 | 1494.9 | 1479.0 | 1493.6 | 1487.3 |
| 10° | 1489.8 | 1485.4 | 1469.5 | 1483.5 | 1477.7 |
| 12.5° | 1476.5 | 1472.7 | 1458.1 | 1471.4 | 1465.7 |
| 15° | 1460.6 | 1456.8 | 1442.8 | 1455.5 | 1451.1 |
| 17.5° | 1441.6 | 1437.1 | 1423.8 | 1437.1 | 1433.9 |
| 20° | 1418.1 | 1415.5 | 1403.5 | 1415.5 | 1413.6 |
| 22.5° | 1393.9 | 1390.8 | 1381.3 | 1390.1 | 1390.8 |
| 25° | 1366.0 | 1364.8 | 1355.2 | 1364.8 | 1357.8 |
| 27.5° | 1336.8 | 1336.8 | 1327.3 | 1333.6 | 1329.2 |
| 30° | 1304.4 | 1303.8 | 1296.2 | 1299.4 | 1297.5 |
| 32.5° | 1269.5 | 1268.9 | 1258.7 | 1267.0 | 1263.8 |
| 35° | 1230.8 | 1228.9 | 1223.2 | 1228.9 | 1225.1 |
| 37.5° | 1190.8 | 1188.9 | 1184.5 | 1187.7 | 1187.0 |
| 40° | 1146.4 | 1146.4 | 1143.9 | 1146.4 | 1144.5 |
| 42.5° | 1100.7 | 1102.6 | 1099.4 | 1102.0 | 1102.0 |
| 45° | 1052.4 | 1055.6 | 1054.3 | 1051.8 | 1052.4 |
| 47.5° | 1001.0 | 1006.7 | 1003.6 | 1002.9 | 999.8 |
| 50° | 950.2 | 955.3 | 952.2 | 949.0 | 947.1 |
| 52.5° | 897.6 | 900.1 | 896.3 | 895.0 | 890.6 |
| 55° | 834.7 | 842.3 | 839.2 | 836.6 | 834.7 |
| 57.5° | 777.0 | 782.7 | 780.1 | 775.1 | 771.9 |
| 60° | 715.4 | 719.8 | 718.6 | 712.8 | 712.2 |
| 62.5° | 655.1 | 656.3 | 655.1 | 644.9 | 645.6 |
| 65° | 589.7 | 591.0 | 582.7 | 574.5 | 576.4 |
| 67.5° | 521.1 | 525.0 | 513.5 | 501.5 | 509.7 |
| 70° | 454.5 | 453.2 | 444.3 | 431.0 | 443.1 |
| 72.5° | 385.9 | 384.7 | 374.5 | 365.0 | 373.2 |
| 75° | 317.4 | 312.3 | 302.1 | 297.7 | 303.4 |
| 77.5° | 246.3 | 240.6 | 236.1 | 233.0 | 235.5 |
| 80° | 182.2 | 174.6 | 170.8 | 168.2 | 173.9 |
| 82.5° | 121.2 | 115.5 | 113.6 | 115.5 | 114.3 |
| 85° | 67.9 | 66.7 | 66.7 | 64.7 | 62.2 |
| 87.5° | 27.9 | 29.2 | 29.8 | 29.2 | 27.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)