

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: P565731

Luminaire Tested: **2SNX-40HL-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565731
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-L835-CD
Description: 2FT 4000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

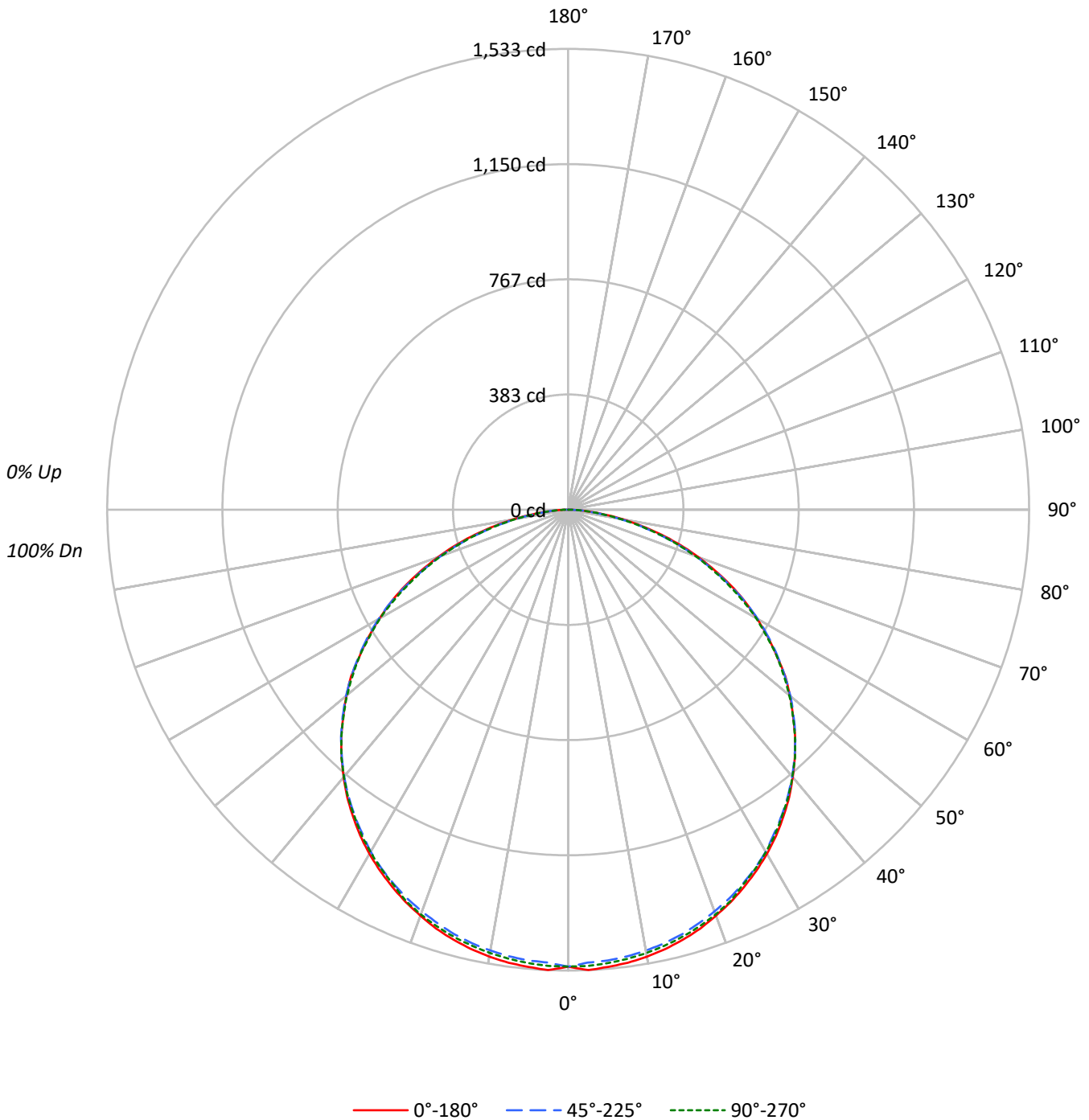
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4550.0 lumens
Efficiency: N/A
Efficacy: 165.2 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: P565731

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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 99 | 95 | 106 | 101 | 98 | 94 | 97 | 94 | 91 | | 93 | 91 | 88 | | 90 | 88 | 86 | 83 |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | | 81 | 77 | 73 | | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | | 72 | 66 | 61 | | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | | 64 | 57 | 52 | | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 46 | | 57 | 50 | 45 | | 55 | 49 | 45 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | | 51 | 45 | 39 | | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | | 47 | 40 | 35 | | 45 | 39 | 35 | 33 |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 37 | 31 | | 43 | 36 | 31 | | 42 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | | 39 | 33 | 28 | | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | | 36 | 30 | 25 | | 36 | 30 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 32722 | 32722 | 32722 |
| 5° | 32986 | 32527 | 32722 |
| 10° | 33002 | 32552 | 32735 |
| 15° | 32987 | 32586 | 32773 |
| 20° | 32921 | 32582 | 32818 |
| 25° | 32882 | 32620 | 32682 |
| 30° | 32860 | 32651 | 32684 |
| 35° | 32780 | 32575 | 32627 |
| 40° | 32647 | 32574 | 32593 |
| 45° | 32470 | 32527 | 32470 |
| 50° | 32249 | 32316 | 32142 |
| 55° | 31749 | 31918 | 31749 |
| 60° | 31211 | 31353 | 31073 |
| 65° | 30441 | 30080 | 29754 |
| 70° | 28992 | 28343 | 28261 |
| 75° | 26750 | 25469 | 25577 |
| 80° | 22886 | 21447 | 21857 |
| 85° | 16994 | 16673 | 15561 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 144.3 | 3.2 |
| 10°-20° | 415.6 | 9.1 |
| 20°-30° | 636.3 | 14.0 |
| 30°-40° | 778.4 | 17.1 |
| 40°-50° | 823.3 | 18.1 |
| 50°-60° | 758.6 | 16.7 |
| 60°-70° | 583.8 | 12.8 |
| 70°-80° | 328.0 | 7.2 |
| 80°-90° | 81.8 | 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° | 1196.2 | 26.3 |
| 0°-40° | 1974.5 | 43.4 |
| 0°-60° | 3556.3 | 78.2 |
| 0°-90° | 4550.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4550.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1520 | 1520 | 1520 | 1520 | 1520 | |
| 5° | 1526 | 1522 | 1505 | 1519 | 1514 | 145 |
| 15° | 1480 | 1476 | 1462 | 1475 | 1470 | 418 |
| 25° | 1384 | 1383 | 1373 | 1383 | 1376 | 638 |
| 35° | 1247 | 1245 | 1240 | 1245 | 1242 | 781 |
| 45° | 1066 | 1070 | 1068 | 1066 | 1066 | 822 |
| 55° | 846 | 854 | 850 | 848 | 846 | 758 |
| 65° | 598 | 599 | 590 | 582 | 584 | 589 |
| 75° | 322 | 316 | 306 | 302 | 308 | 339 |
| 85° | 69 | 68 | 68 | 66 | 63 | 85 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P565731

CATALOG NUMBER: 2SNX-40HL-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1520.0 | 1520.0 | 1520.0 | 1520.0 | 1520.0 |
| 2.5° | 1532.9 | 1524.5 | 1507.8 | 1522.6 | 1518.7 |
| 5° | 1526.4 | 1521.9 | 1505.2 | 1518.7 | 1514.2 |
| 7.5° | 1520.0 | 1514.9 | 1498.8 | 1513.6 | 1507.1 |
| 10° | 1509.7 | 1505.2 | 1489.1 | 1503.3 | 1497.5 |
| 12.5° | 1496.2 | 1492.3 | 1477.5 | 1491.1 | 1485.3 |
| 15° | 1480.1 | 1476.3 | 1462.1 | 1475.0 | 1470.5 |
| 17.5° | 1460.8 | 1456.3 | 1442.8 | 1456.3 | 1453.1 |
| 20° | 1437.0 | 1434.4 | 1422.2 | 1434.4 | 1432.5 |
| 22.5° | 1412.6 | 1409.4 | 1399.7 | 1408.7 | 1409.4 |
| 25° | 1384.3 | 1383.0 | 1373.3 | 1383.0 | 1375.9 |
| 27.5° | 1354.7 | 1354.7 | 1345.0 | 1351.5 | 1347.0 |
| 30° | 1321.9 | 1321.2 | 1313.5 | 1316.7 | 1314.8 |
| 32.5° | 1286.5 | 1285.9 | 1275.6 | 1283.9 | 1280.7 |
| 35° | 1247.3 | 1245.3 | 1239.5 | 1245.3 | 1241.5 |
| 37.5° | 1206.7 | 1204.8 | 1200.3 | 1203.5 | 1202.9 |
| 40° | 1161.7 | 1161.7 | 1159.1 | 1161.7 | 1159.8 |
| 42.5° | 1115.4 | 1117.3 | 1114.1 | 1116.7 | 1116.7 |
| 45° | 1066.5 | 1069.7 | 1068.4 | 1065.9 | 1066.5 |
| 47.5° | 1014.4 | 1020.2 | 1017.0 | 1016.3 | 1013.1 |
| 50° | 962.9 | 968.1 | 964.9 | 961.7 | 959.7 |
| 52.5° | 909.6 | 912.1 | 908.3 | 907.0 | 902.5 |
| 55° | 845.9 | 853.6 | 850.4 | 847.8 | 845.9 |
| 57.5° | 787.3 | 793.1 | 790.6 | 785.4 | 782.2 |
| 60° | 724.9 | 729.4 | 728.2 | 722.4 | 721.7 |
| 62.5° | 663.8 | 665.1 | 663.8 | 653.5 | 654.2 |
| 65° | 597.6 | 598.9 | 590.5 | 582.1 | 584.1 |
| 67.5° | 528.1 | 532.0 | 520.4 | 508.2 | 516.5 |
| 70° | 460.6 | 459.3 | 450.3 | 436.8 | 449.0 |
| 72.5° | 391.1 | 389.8 | 379.5 | 369.9 | 378.2 |
| 75° | 321.6 | 316.5 | 306.2 | 301.7 | 307.5 |
| 77.5° | 249.6 | 243.8 | 239.3 | 236.1 | 238.6 |
| 80° | 184.6 | 176.9 | 173.0 | 170.5 | 176.3 |
| 82.5° | 122.9 | 117.1 | 115.1 | 117.1 | 115.8 |
| 85° | 68.8 | 67.5 | 67.5 | 65.6 | 63.0 |
| 87.5° | 28.3 | 29.6 | 30.2 | 29.6 | 28.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)