

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: P566788

Luminaire Tested: **4SNX-74HL-LW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566788
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: 4SNX-74HL-LW-UNV-L940-CD
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

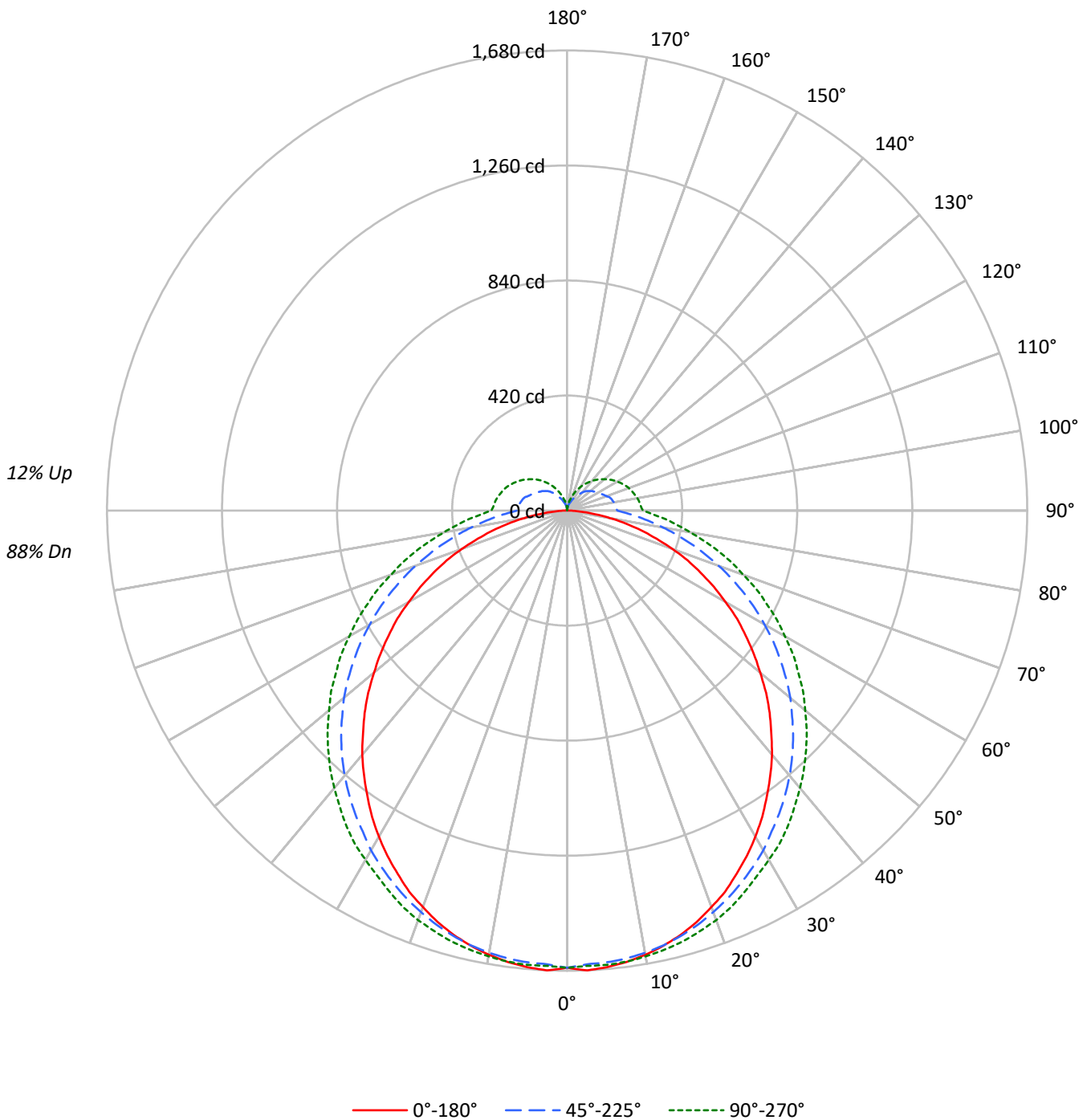
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6009.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 51.8
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: P566788
CATALOG NUMBER: 4SNX-74HL-LW-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566788

CATALOG NUMBER: 4SNX-74HL-LW-UNV-L940-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° | 17966 | 17966 | 17966 |
| 5° | 18013 | 17139 | 16999 |
| 10° | 17864 | 16462 | 16163 |
| 15° | 17668 | 15792 | 15401 |
| 20° | 17381 | 15114 | 14665 |
| 25° | 17048 | 14454 | 13910 |
| 30° | 16686 | 13810 | 13215 |
| 35° | 16239 | 13134 | 12592 |
| 40° | 15800 | 12501 | 11915 |
| 45° | 15278 | 11835 | 11269 |
| 50° | 14676 | 11147 | 10582 |
| 55° | 14088 | 10391 | 9902 |
| 60° | 13409 | 9597 | 9171 |
| 65° | 12583 | 8732 | 8413 |
| 70° | 11536 | 7796 | 7594 |
| 75° | 10074 | 6772 | 6809 |
| 80° | 8047 | 5746 | 5911 |
| 85° | 5162 | 4762 | 5161 |



TEST NUMBER: P566788

CATALOG NUMBER: 4SNX-74HL-LW-UNV-L940-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 158.5 | 2.6 |
| 10°-20° | 455.8 | 7.6 |
| 20°-30° | 693.4 | 11.5 |
| 30°-40° | 843.1 | 14.0 |
| 40°-50° | 892.0 | 14.8 |
| 50°-60° | 836.1 | 13.9 |
| 60°-70° | 687.8 | 11.4 |
| 70°-80° | 475.9 | 7.9 |
| 80°-90° | 264.6 | 4.4 |
| 90°-100° | 174.3 | 2.9 |
| 100°-110° | 156.3 | 2.6 |
| 110°-120° | 129.4 | 2.2 |
| 120°-130° | 100.0 | 1.7 |
| 130°-140° | 70.8 | 1.2 |
| 140°-150° | 42.7 | 0.7 |
| 150°-160° | 20.5 | 0.3 |
| 160°-170° | 6.7 | 0.1 |
| 170°-180° | 0.8 | 0.0 |
| 0°-30° | 1307.7 | 21.8 |
| 0°-40° | 2150.8 | 35.8 |
| 0°-60° | 3878.8 | 64.6 |
| 0°-90° | 5307.3 | 88.3 |
| 90°-120° | 460.1 | 7.7 |
| 90°-150° | 673.7 | 11.2 |
| 90°-180° | 702.0 | 11.7 |
| 0°-180° | 6009.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1669 | 1669 | 1669 | 1669 | 1669 | |
| 5° | 1673 | 1670 | 1656 | 1669 | 1665 | 159 |
| 15° | 1603 | 1608 | 1607 | 1629 | 1629 | 452 |
| 25° | 1463 | 1484 | 1501 | 1534 | 1535 | 674 |
| 35° | 1272 | 1306 | 1350 | 1393 | 1406 | 796 |
| 45° | 1046 | 1100 | 1167 | 1219 | 1234 | 806 |
| 55° | 795 | 866 | 950 | 1010 | 1030 | 712 |
| 65° | 538 | 615 | 711 | 781 | 803 | 534 |
| 75° | 280 | 361 | 467 | 541 | 571 | 297 |
| 85° | 62 | 153 | 259 | 331 | 360 | 71 |
| 90° | 1 | 86 | 183 | 252 | 277 | 4 |
| 95° | 1 | 82 | 178 | 244 | 268 | 1 |
| 105° | 1 | 71 | 167 | 230 | 250 | 1 |
| 115° | 2 | 62 | 141 | 204 | 226 | 2 |
| 125° | 2 | 52 | 120 | 174 | 196 | 2 |
| 135° | 2 | 41 | 101 | 143 | 160 | 2 |
| 145° | 2 | 30 | 70 | 108 | 121 | 1 |
| 155° | 3 | 21 | 43 | 69 | 80 | 1 |
| 165° | 3 | 13 | 24 | 32 | 41 | 1 |
| 175° | 3 | 5 | 7 | 7 | 4 | 0 |
| 180° | 2 | 2 | 2 | 2 | 2 | |



TEST NUMBER: P566788

CATALOG NUMBER: 4SNX-74HL-LW-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1669.1 | 1669.1 | 1669.1 | 1669.1 | 1669.1 |
| 2.5° | 1680.4 | 1675.2 | 1657.7 | 1669.1 | 1663.9 |
| 5° | 1673.2 | 1670.1 | 1655.7 | 1669.1 | 1665.0 |
| 7.5° | 1661.9 | 1660.8 | 1649.5 | 1665.0 | 1660.8 |
| 10° | 1646.4 | 1648.5 | 1639.2 | 1655.7 | 1652.6 |
| 12.5° | 1626.9 | 1630.0 | 1625.8 | 1644.4 | 1642.3 |
| 15° | 1603.2 | 1608.4 | 1607.3 | 1628.9 | 1628.9 |
| 17.5° | 1574.4 | 1581.6 | 1585.7 | 1610.4 | 1610.4 |
| 20° | 1540.4 | 1551.8 | 1560.0 | 1586.7 | 1590.9 |
| 22.5° | 1506.5 | 1519.9 | 1532.2 | 1560.0 | 1566.2 |
| 25° | 1463.3 | 1483.8 | 1501.3 | 1534.3 | 1535.3 |
| 27.5° | 1421.1 | 1443.7 | 1467.4 | 1499.3 | 1502.4 |
| 30° | 1374.8 | 1403.6 | 1432.4 | 1463.3 | 1472.5 |
| 32.5° | 1325.4 | 1357.3 | 1389.2 | 1430.3 | 1442.7 |
| 35° | 1271.9 | 1305.8 | 1350.1 | 1393.3 | 1405.6 |
| 37.5° | 1218.4 | 1256.4 | 1307.9 | 1352.1 | 1363.4 |
| 40° | 1163.8 | 1206.0 | 1263.6 | 1308.9 | 1322.3 |
| 42.5° | 1103.1 | 1154.6 | 1216.3 | 1264.7 | 1280.1 |
| 45° | 1045.5 | 1100.0 | 1166.9 | 1219.4 | 1233.8 |
| 47.5° | 984.8 | 1042.4 | 1114.4 | 1170.0 | 1186.5 |
| 50° | 919.9 | 985.8 | 1063.0 | 1118.5 | 1134.0 |
| 52.5° | 859.2 | 926.1 | 1007.4 | 1065.0 | 1086.6 |
| 55° | 795.4 | 866.4 | 949.8 | 1009.5 | 1030.0 |
| 57.5° | 735.7 | 803.7 | 893.2 | 952.9 | 978.6 |
| 60° | 667.8 | 743.0 | 832.5 | 897.3 | 917.9 |
| 62.5° | 604.0 | 680.2 | 772.8 | 839.7 | 863.3 |
| 65° | 538.2 | 615.4 | 711.1 | 781.0 | 802.6 |
| 67.5° | 476.4 | 552.6 | 650.3 | 719.3 | 747.1 |
| 70° | 408.5 | 488.8 | 588.6 | 659.6 | 683.3 |
| 72.5° | 341.6 | 425.0 | 526.9 | 603.0 | 629.8 |
| 75° | 279.9 | 361.2 | 467.2 | 541.3 | 571.1 |
| 77.5° | 220.2 | 302.5 | 409.5 | 485.7 | 511.4 |
| 80° | 160.5 | 247.0 | 356.0 | 431.2 | 455.9 |
| 82.5° | 106.0 | 196.5 | 304.6 | 379.7 | 406.5 |
| 85° | 61.7 | 153.3 | 259.3 | 331.3 | 360.2 |
| 87.5° | 26.8 | 116.3 | 217.1 | 288.1 | 311.8 |
| 90° | 1.0 | 86.4 | 183.2 | 252.1 | 276.8 |
| 92.5° | 1.0 | 84.4 | 179.0 | 247.0 | 270.6 |
| 95° | 1.0 | 82.3 | 178.0 | 243.9 | 267.5 |
| 97.5° | 1.0 | 81.3 | 176.0 | 241.8 | 264.5 |
| 100° | 1.0 | 78.2 | 172.9 | 237.7 | 260.3 |
| 102.5° | 1.0 | 74.1 | 169.8 | 233.6 | 255.2 |
| 105° | 1.0 | 71.0 | 166.7 | 229.5 | 250.1 |
| 107.5° | 1.0 | 67.9 | 161.6 | 224.3 | 244.9 |
| 110° | 1.0 | 64.8 | 153.3 | 219.2 | 239.8 |



TEST NUMBER: P566788

CATALOG NUMBER: 4SNX-74HL-LW-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 1.0 | 63.8 | 147.1 | 212.0 | 233.6 |
| 115° | 2.1 | 61.7 | 141.0 | 203.7 | 226.4 |
| 117.5° | 2.1 | 60.7 | 135.8 | 195.5 | 219.2 |
| 120° | 2.1 | 57.6 | 130.7 | 188.3 | 210.9 |
| 122.5° | 2.1 | 54.5 | 125.5 | 181.1 | 203.7 |
| 125° | 2.1 | 52.5 | 120.4 | 173.9 | 195.5 |
| 127.5° | 2.1 | 49.4 | 116.3 | 166.7 | 186.3 |
| 130° | 2.1 | 47.3 | 111.1 | 158.5 | 178.0 |
| 132.5° | 2.1 | 44.2 | 106.0 | 150.2 | 168.8 |
| 135° | 2.1 | 41.2 | 100.8 | 143.0 | 160.5 |
| 137.5° | 2.1 | 37.0 | 94.7 | 134.8 | 151.3 |
| 140° | 2.1 | 34.0 | 86.4 | 126.6 | 142.0 |
| 142.5° | 2.1 | 31.9 | 78.2 | 117.3 | 131.7 |
| 145° | 2.1 | 29.8 | 70.0 | 108.0 | 121.4 |
| 147.5° | 2.1 | 27.8 | 62.8 | 98.8 | 111.1 |
| 150° | 2.1 | 24.7 | 55.6 | 90.6 | 100.8 |
| 152.5° | 3.1 | 22.6 | 49.4 | 80.3 | 90.6 |
| 155° | 3.1 | 20.6 | 43.2 | 68.9 | 80.3 |
| 157.5° | 3.1 | 18.5 | 37.0 | 57.6 | 70.0 |
| 160° | 3.1 | 16.5 | 31.9 | 47.3 | 59.7 |
| 162.5° | 3.1 | 15.4 | 27.8 | 39.1 | 50.4 |
| 165° | 3.1 | 13.4 | 23.7 | 31.9 | 41.2 |
| 167.5° | 3.1 | 10.3 | 19.6 | 24.7 | 34.0 |
| 170° | 3.1 | 8.2 | 15.4 | 17.5 | 25.7 |
| 172.5° | 3.1 | 6.2 | 11.3 | 12.3 | 13.4 |
| 175° | 3.1 | 5.1 | 7.2 | 7.2 | 4.1 |
| 177.5° | 3.1 | 4.1 | 4.1 | 4.1 | 2.1 |
| 180° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |

(END OF REPORT)