

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: P566887

Luminaire Tested: **4SNX-84HL-SLW-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566887  
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-84HL-SLW-UNV-L835-CD  
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

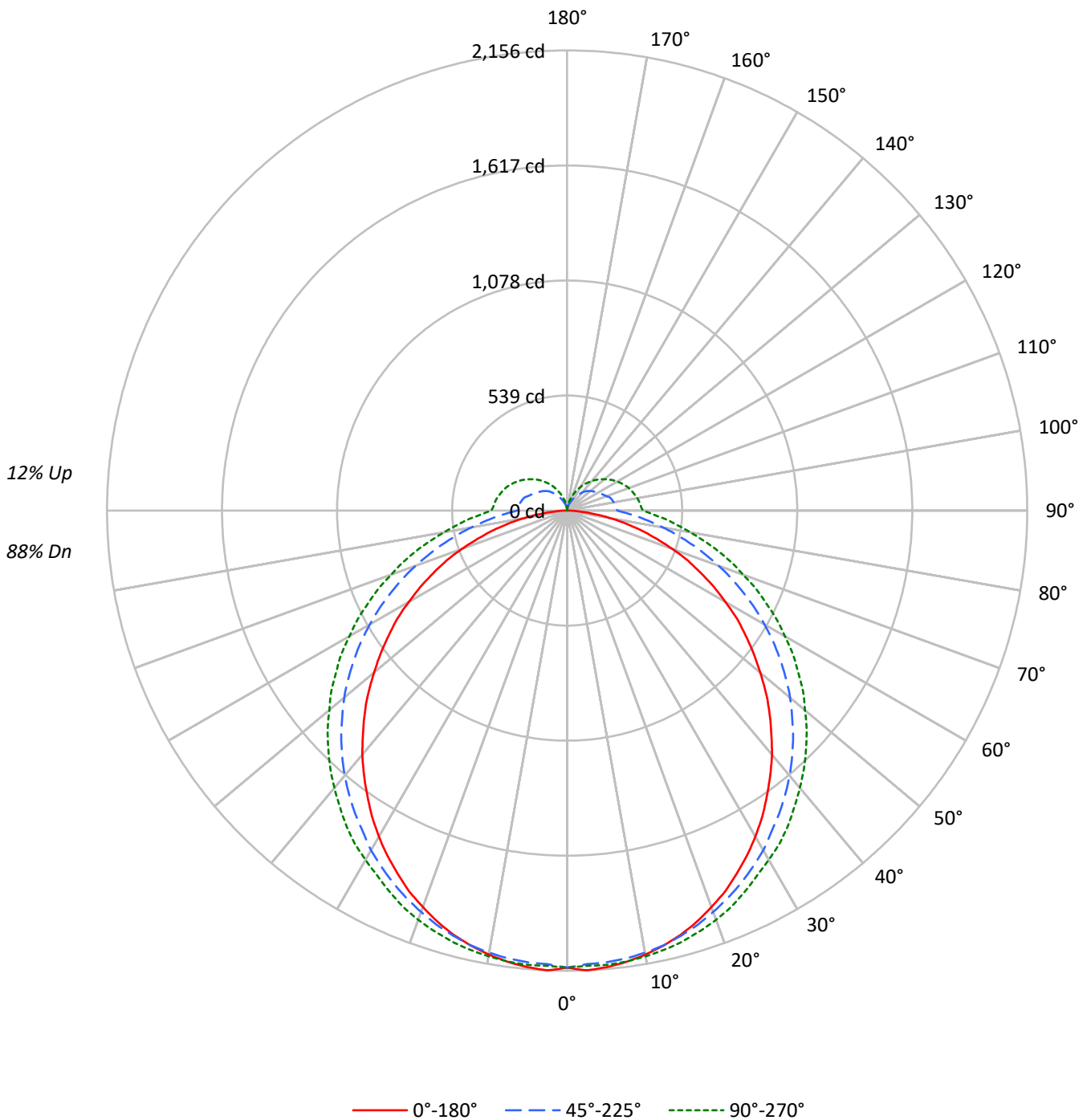
Lumens per Lamp: N/A  
Luminaire Lumens: 7710.0 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 57.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P566887

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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 | 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°  | 23051 | 23051 | 23051 |
| 5°  | 23154 | 22464 | 22431 |
| 10° | 23005 | 22021 | 21894 |
| 15° | 22796 | 21542 | 21388 |
| 20° | 22471 | 21019 | 20861 |
| 25° | 22085 | 20494 | 20259 |
| 30° | 21664 | 19968 | 19706 |
| 35° | 21137 | 19377 | 19229 |
| 40° | 20624 | 18838 | 18645 |
| 45° | 20004 | 18241 | 18091 |
| 50° | 19290 | 17606 | 17458 |
| 55° | 18602 | 16862 | 16824 |
| 60° | 17807 | 16057 | 16097 |
| 65° | 16838 | 15138 | 15321 |
| 70° | 15608 | 14103 | 14429 |
| 75° | 13861 | 12910 | 13611 |
| 80° | 11425 | 11727 | 12576 |
| 85° | 7906  | 10670 | 11903 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 203.3  | 2.6       |
| 10°-20°   | 584.8  | 7.6       |
| 20°-30°   | 889.7  | 11.5      |
| 30°-40°   | 1081.8 | 14.0      |
| 40°-50°   | 1144.5 | 14.8      |
| 50°-60°   | 1072.8 | 13.9      |
| 60°-70°   | 882.5  | 11.4      |
| 70°-80°   | 610.7  | 7.9       |
| 80°-90°   | 339.6  | 4.4       |
| 90°-100°  | 223.7  | 2.9       |
| 100°-110° | 200.6  | 2.6       |
| 110°-120° | 166.0  | 2.2       |
| 120°-130° | 128.4  | 1.7       |
| 130°-140° | 90.9   | 1.2       |
| 140°-150° | 54.8   | 0.7       |
| 150°-160° | 26.3   | 0.3       |
| 160°-170° | 8.6    | 0.1       |
| 170°-180° | 1.1    | 0.0       |
| 0°-30°    | 1677.8 | 21.8      |
| 0°-40°    | 2759.6 | 35.8      |
| 0°-60°    | 4976.9 | 64.6      |
| 0°-90°    | 6809.6 | 88.3      |
| 90°-120°  | 590.3  | 7.7       |
| 90°-150°  | 864.4  | 11.2      |
| 90°-180°  | 900.0  | 11.7      |
| 0°-180°   | 7710.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2142 | 2142  | 2142 | 2142  | 2142 |      |
| 5°   | 2147 | 2143  | 2124 | 2142  | 2136 | 204  |
| 15°  | 2057 | 2064  | 2062 | 2090  | 2090 | 580  |
| 25°  | 1878 | 1904  | 1926 | 1969  | 1970 | 865  |
| 35°  | 1632 | 1676  | 1732 | 1788  | 1804 | 1021 |
| 45°  | 1341 | 1411  | 1497 | 1565  | 1583 | 1034 |
| 55°  | 1021 | 1112  | 1219 | 1295  | 1322 | 914  |
| 65°  | 690  | 790   | 912  | 1002  | 1030 | 685  |
| 75°  | 359  | 463   | 599  | 694   | 733  | 381  |
| 85°  | 79   | 197   | 333  | 425   | 462  | 91   |
| 90°  | 1    | 111   | 235  | 324   | 355  | 5    |
| 95°  | 1    | 106   | 228  | 313   | 343  | 1    |
| 105° | 1    | 91    | 214  | 294   | 321  | 1    |
| 115° | 3    | 79    | 181  | 261   | 290  | 2    |
| 125° | 3    | 67    | 154  | 223   | 251  | 2    |
| 135° | 3    | 53    | 129  | 184   | 206  | 2    |
| 145° | 3    | 38    | 90   | 139   | 156  | 2    |
| 155° | 4    | 26    | 56   | 88    | 103  | 2    |
| 165° | 4    | 17    | 30   | 41    | 53   | 1    |
| 175° | 4    | 7     | 9    | 9     | 5    | 0    |
| 180° | 3    | 3     | 3    | 3     | 3    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2141.5 | 2141.5 | 2141.5 | 2141.5 | 2141.5 |
| 2.5°   | 2156.1 | 2149.5 | 2127.0 | 2141.5 | 2134.9 |
| 5°     | 2146.8 | 2142.9 | 2124.4 | 2141.5 | 2136.3 |
| 7.5°   | 2132.3 | 2131.0 | 2116.5 | 2136.3 | 2131.0 |
| 10°    | 2112.5 | 2115.1 | 2103.3 | 2124.4 | 2120.4 |
| 12.5°  | 2087.4 | 2091.4 | 2086.1 | 2109.9 | 2107.2 |
| 15°    | 2057.0 | 2063.6 | 2062.3 | 2090.0 | 2090.0 |
| 17.5°  | 2020.1 | 2029.3 | 2034.6 | 2066.3 | 2066.3 |
| 20°    | 1976.5 | 1991.0 | 2001.6 | 2035.9 | 2041.2 |
| 22.5°  | 1932.9 | 1950.1 | 1965.9 | 2001.6 | 2009.5 |
| 25°    | 1877.5 | 1903.9 | 1926.3 | 1968.6 | 1969.9 |
| 27.5°  | 1823.3 | 1852.4 | 1882.8 | 1923.7 | 1927.6 |
| 30°    | 1763.9 | 1800.9 | 1837.9 | 1877.5 | 1889.4 |
| 32.5°  | 1700.6 | 1741.5 | 1782.4 | 1835.2 | 1851.1 |
| 35°    | 1631.9 | 1675.5 | 1732.2 | 1787.7 | 1803.5 |
| 37.5°  | 1563.2 | 1612.1 | 1678.1 | 1734.9 | 1749.4 |
| 40°    | 1493.3 | 1547.4 | 1621.3 | 1679.4 | 1696.6 |
| 42.5°  | 1415.4 | 1481.4 | 1560.6 | 1622.7 | 1642.5 |
| 45°    | 1341.4 | 1411.4 | 1497.2 | 1564.6 | 1583.0 |
| 47.5°  | 1263.5 | 1337.5 | 1429.9 | 1501.2 | 1522.3 |
| 50°    | 1180.4 | 1264.9 | 1363.9 | 1435.2 | 1455.0 |
| 52.5°  | 1102.5 | 1188.3 | 1292.6 | 1366.5 | 1394.2 |
| 55°    | 1020.6 | 1111.7 | 1218.6 | 1295.2 | 1321.6 |
| 57.5°  | 944.0  | 1031.2 | 1146.0 | 1222.6 | 1255.6 |
| 60°    | 856.9  | 953.3  | 1068.1 | 1151.3 | 1177.7 |
| 62.5°  | 775.0  | 872.7  | 991.6  | 1077.4 | 1107.7 |
| 65°    | 690.5  | 789.5  | 912.3  | 1002.1 | 1029.8 |
| 67.5°  | 611.3  | 709.0  | 834.4  | 922.9  | 958.5  |
| 70°    | 524.2  | 627.1  | 755.2  | 846.3  | 876.7  |
| 72.5°  | 438.3  | 545.3  | 676.0  | 773.7  | 808.0  |
| 75°    | 359.1  | 463.4  | 599.4  | 694.5  | 732.8  |
| 77.5°  | 282.5  | 388.2  | 525.5  | 623.2  | 656.2  |
| 80°    | 206.0  | 316.9  | 456.8  | 553.2  | 584.9  |
| 82.5°  | 136.0  | 252.2  | 390.8  | 487.2  | 521.5  |
| 85°    | 79.2   | 196.7  | 332.7  | 425.1  | 462.1  |
| 87.5°  | 34.3   | 149.2  | 278.6  | 369.7  | 400.1  |
| 90°    | 1.3    | 110.9  | 235.0  | 323.5  | 355.2  |
| 92.5°  | 1.3    | 108.3  | 229.7  | 316.9  | 347.2  |
| 95°    | 1.3    | 105.6  | 228.4  | 312.9  | 343.3  |
| 97.5°  | 1.3    | 104.3  | 225.8  | 310.3  | 339.3  |
| 100°   | 1.3    | 100.3  | 221.8  | 305.0  | 334.0  |
| 102.5° | 1.3    | 95.1   | 217.9  | 299.7  | 327.4  |
| 105°   | 1.3    | 91.1   | 213.9  | 294.4  | 320.8  |
| 107.5° | 1.3    | 87.1   | 207.3  | 287.8  | 314.2  |
| 110°   | 1.3    | 83.2   | 196.7  | 281.2  | 307.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 1.3 | 81.9  | 188.8 | 272.0 | 299.7 |
| 115°   | 2.6 | 79.2  | 180.9 | 261.4 | 290.5 |
| 117.5° | 2.6 | 77.9  | 174.3 | 250.9 | 281.2 |
| 120°   | 2.6 | 73.9  | 167.7 | 241.6 | 270.7 |
| 122.5° | 2.6 | 70.0  | 161.1 | 232.4 | 261.4 |
| 125°   | 2.6 | 67.3  | 154.5 | 223.1 | 250.9 |
| 127.5° | 2.6 | 63.4  | 149.2 | 213.9 | 239.0 |
| 130°   | 2.6 | 60.7  | 142.6 | 203.3 | 228.4 |
| 132.5° | 2.6 | 56.8  | 136.0 | 192.8 | 216.5 |
| 135°   | 2.6 | 52.8  | 129.4 | 183.5 | 206.0 |
| 137.5° | 2.6 | 47.5  | 121.5 | 173.0 | 194.1 |
| 140°   | 2.6 | 43.6  | 110.9 | 162.4 | 182.2 |
| 142.5° | 2.6 | 40.9  | 100.3 | 150.5 | 169.0 |
| 145°   | 2.6 | 38.3  | 89.8  | 138.6 | 155.8 |
| 147.5° | 2.6 | 35.6  | 80.5  | 126.7 | 142.6 |
| 150°   | 2.6 | 31.7  | 71.3  | 116.2 | 129.4 |
| 152.5° | 4.0 | 29.0  | 63.4  | 103.0 | 116.2 |
| 155°   | 4.0 | 26.4  | 55.5  | 88.5  | 103.0 |
| 157.5° | 4.0 | 23.8  | 47.5  | 73.9  | 89.8  |
| 160°   | 4.0 | 21.1  | 40.9  | 60.7  | 76.6  |
| 162.5° | 4.0 | 19.8  | 35.6  | 50.2  | 64.7  |
| 165°   | 4.0 | 17.2  | 30.4  | 40.9  | 52.8  |
| 167.5° | 4.0 | 13.2  | 25.1  | 31.7  | 43.6  |
| 170°   | 4.0 | 10.6  | 19.8  | 22.4  | 33.0  |
| 172.5° | 4.0 | 7.9   | 14.5  | 15.8  | 17.2  |
| 175°   | 4.0 | 6.6   | 9.2   | 9.2   | 5.3   |
| 177.5° | 4.0 | 5.3   | 5.3   | 5.3   | 2.6   |
| 180°   | 2.6 | 2.6   | 2.6   | 2.6   | 2.6   |

(END OF REPORT)