

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: P290517

Luminaire Tested: **8SSRK-SLW-12-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290517  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-17)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-SLW-12-L935-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 90 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9176.5 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

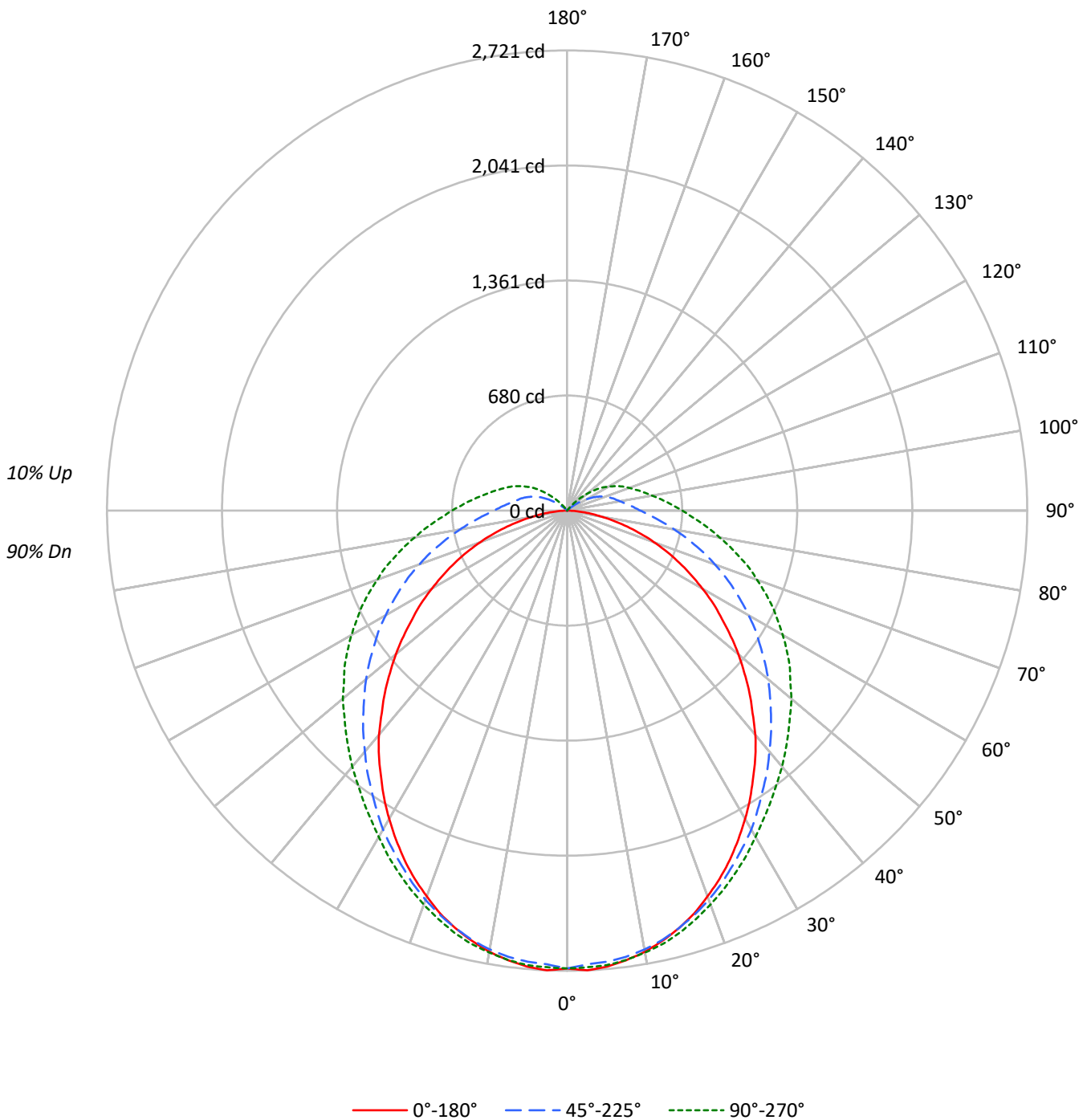
Input Watts (W): 80.8951  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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   | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 |  | 99 | 99 | 99 |  | 93 | 93 | 93 | 90 |
| 1   | 104 | 99  | 94  | 89  | 101 | 96  | 91  | 87  | 89  | 86  | 82  |  | 84 | 81 | 78 |  | 79 | 76 | 74 | 71 |
| 2   | 94  | 85  | 78  | 71  | 91  | 82  | 76  | 70  | 77  | 72  | 67  |  | 72 | 68 | 64 |  | 68 | 64 | 61 | 58 |
| 3   | 86  | 74  | 66  | 59  | 82  | 72  | 64  | 58  | 68  | 61  | 55  |  | 63 | 58 | 53 |  | 60 | 55 | 51 | 48 |
| 4   | 78  | 66  | 56  | 49  | 75  | 64  | 55  | 49  | 60  | 53  | 47  |  | 56 | 50 | 45 |  | 53 | 48 | 43 | 41 |
| 5   | 72  | 59  | 49  | 42  | 69  | 57  | 48  | 42  | 54  | 46  | 40  |  | 50 | 44 | 39 |  | 48 | 42 | 38 | 35 |
| 6   | 66  | 53  | 43  | 37  | 64  | 51  | 43  | 36  | 48  | 41  | 35  |  | 46 | 39 | 34 |  | 43 | 37 | 33 | 31 |
| 7   | 61  | 48  | 39  | 32  | 59  | 46  | 38  | 32  | 44  | 36  | 31  |  | 42 | 35 | 30 |  | 39 | 34 | 29 | 27 |
| 8   | 57  | 43  | 35  | 29  | 55  | 42  | 34  | 28  | 40  | 33  | 28  |  | 38 | 32 | 27 |  | 36 | 30 | 26 | 24 |
| 9   | 53  | 40  | 32  | 26  | 51  | 39  | 31  | 26  | 37  | 30  | 25  |  | 35 | 29 | 24 |  | 33 | 28 | 24 | 22 |
| 10  | 50  | 37  | 29  | 23  | 48  | 36  | 28  | 23  | 34  | 27  | 23  |  | 33 | 26 | 22 |  | 31 | 26 | 21 | 20 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 87426 | 87426 | 87426 |
| 5°  | 87600 | 69508 | 64791 |
| 10° | 86545 | 57558 | 51025 |
| 15° | 84954 | 48489 | 41676 |
| 20° | 82787 | 41360 | 34685 |
| 25° | 80373 | 35471 | 29347 |
| 30° | 77560 | 30749 | 25096 |
| 35° | 74553 | 26587 | 21774 |
| 40° | 71731 | 23164 | 19131 |
| 45° | 68203 | 20248 | 16900 |
| 50° | 64819 | 17767 | 15082 |
| 55° | 61107 | 15499 | 13476 |
| 60° | 57559 | 13517 | 12000 |
| 65° | 53583 | 11677 | 10685 |
| 70° | 48786 | 9955  | 9405  |
| 75° | 42474 | 8375  | 8245  |
| 80° | 34409 | 6975  | 7187  |
| 85° | 24269 | 5815  | 6263  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 255.9  | 2.8       |
| 10°-20°   | 723.6  | 7.9       |
| 20°-30°   | 1070.5 | 11.7      |
| 30°-40°   | 1264.3 | 13.8      |
| 40°-50°   | 1314.2 | 14.3      |
| 50°-60°   | 1239.1 | 13.5      |
| 60°-70°   | 1056.2 | 11.5      |
| 70°-80°   | 798.8  | 8.7       |
| 80°-90°   | 539.0  | 5.9       |
| 90°-100°  | 370.0  | 4.0       |
| 100°-110° | 265.4  | 2.9       |
| 110°-120° | 170.3  | 1.9       |
| 120°-130° | 86.9   | 0.9       |
| 130°-140° | 22.0   | 0.2       |
| 140°-150° | 0.3    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 2049.9 | 22.3      |
| 0°-40°    | 3314.2 | 36.1      |
| 0°-60°    | 5867.6 | 63.9      |
| 0°-90°    | 8261.6 | 90.0      |
| 90°-120°  | 805.7  | 8.8       |
| 90°-150°  | 914.9  | 10.0      |
| 90°-180°  | 915.0  | 10.0      |
| 0°-180°   | 9176.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2707 | 2707  | 2707 | 2707  | 2707 |      |
| 5°   | 2707 | 2700  | 2678 | 2703  | 2698 | 256  |
| 15°  | 2555 | 2563  | 2555 | 2580  | 2583 | 720  |
| 25°  | 2278 | 2304  | 2315 | 2355  | 2360 | 1048 |
| 35°  | 1919 | 1964  | 2017 | 2078  | 2099 | 1202 |
| 45°  | 1525 | 1600  | 1704 | 1809  | 1850 | 1176 |
| 55°  | 1118 | 1233  | 1393 | 1543  | 1607 | 1003 |
| 65°  | 733  | 881   | 1085 | 1264  | 1339 | 727  |
| 75°  | 367  | 545   | 779  | 978   | 1053 | 392  |
| 85°  | 81   | 273   | 526  | 720   | 790  | 93   |
| 90°  | 1    | 193   | 432  | 616   | 681  | 5    |
| 95°  | 1    | 153   | 368  | 530   | 590  | 1    |
| 105° | 2    | 98    | 279  | 401   | 447  | 2    |
| 115° | 2    | 13    | 193  | 303   | 341  | 2    |
| 125° | 2    | 3     | 81   | 189   | 226  | 2    |
| 135° | 2    | 1     | 1    | 59    | 88   | 2    |
| 145° | 0    | 0     | 0    | 0     | 0    | 0    |
| 155° | 0    | 0     | 0    | 0     | 0    | 0    |
| 165° | 0    | 0     | 0    | 0     | 0    | 0    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2707.4 | 2707.4 | 2707.4 | 2707.4 | 2707.4 |
| 2.5°   | 2721.1 | 2712.0 | 2685.7 | 2708.5 | 2702.8 |
| 5°     | 2707.4 | 2700.5 | 2677.7 | 2702.8 | 2698.3 |
| 7.5°   | 2681.1 | 2680.0 | 2661.7 | 2688.0 | 2680.0 |
| 10°    | 2649.1 | 2650.3 | 2635.4 | 2661.7 | 2653.7 |
| 12.5°  | 2605.7 | 2610.3 | 2600.0 | 2625.1 | 2624.0 |
| 15°    | 2555.4 | 2563.4 | 2555.4 | 2580.5 | 2582.8 |
| 17.5°  | 2498.3 | 2510.8 | 2505.1 | 2536.0 | 2532.5 |
| 20°    | 2427.4 | 2444.5 | 2449.1 | 2480.0 | 2478.8 |
| 22.5°  | 2356.5 | 2378.3 | 2386.3 | 2418.3 | 2422.8 |
| 25°    | 2277.7 | 2304.0 | 2315.4 | 2355.4 | 2360.0 |
| 27.5°  | 2192.0 | 2226.3 | 2246.8 | 2286.8 | 2297.1 |
| 30°    | 2105.1 | 2141.7 | 2178.3 | 2218.3 | 2227.4 |
| 32.5°  | 2014.8 | 2054.8 | 2097.1 | 2152.0 | 2162.3 |
| 35°    | 1918.8 | 1964.5 | 2017.1 | 2077.7 | 2099.4 |
| 37.5°  | 1828.5 | 1880.0 | 1941.7 | 2012.5 | 2035.4 |
| 40°    | 1731.4 | 1784.0 | 1860.5 | 1940.5 | 1977.1 |
| 42.5°  | 1622.8 | 1693.7 | 1785.1 | 1881.1 | 1913.1 |
| 45°    | 1524.6 | 1600.0 | 1704.0 | 1809.1 | 1850.3 |
| 47.5°  | 1421.7 | 1509.7 | 1627.4 | 1744.0 | 1788.5 |
| 50°    | 1322.3 | 1418.3 | 1552.0 | 1677.7 | 1731.4 |
| 52.5°  | 1219.4 | 1328.0 | 1473.1 | 1612.6 | 1662.8 |
| 55°    | 1117.7 | 1233.1 | 1393.1 | 1542.8 | 1606.8 |
| 57.5°  | 1026.3 | 1144.0 | 1321.1 | 1474.3 | 1539.4 |
| 60°    | 923.4  | 1059.4 | 1240.0 | 1404.6 | 1473.1 |
| 62.5°  | 828.6  | 966.8  | 1160.0 | 1334.8 | 1403.4 |
| 65°    | 732.6  | 881.1  | 1084.6 | 1264.0 | 1339.4 |
| 67.5°  | 642.3  | 792.0  | 1008.0 | 1194.3 | 1266.3 |
| 70°    | 546.3  | 708.6  | 929.1  | 1121.1 | 1194.3 |
| 72.5°  | 458.3  | 625.1  | 856.0  | 1050.3 | 1129.1 |
| 75°    | 366.9  | 545.1  | 779.4  | 978.3  | 1052.6 |
| 77.5°  | 285.7  | 467.4  | 710.8  | 910.8  | 985.1  |
| 80°    | 206.9  | 396.6  | 642.3  | 843.4  | 915.4  |
| 82.5°  | 140.6  | 331.4  | 581.7  | 781.7  | 852.6  |
| 85°    | 81.1   | 273.1  | 525.7  | 720.0  | 789.7  |
| 87.5°  | 30.9   | 227.4  | 475.4  | 666.3  | 730.3  |
| 90°    | 1.1    | 193.1  | 432.0  | 616.0  | 681.1  |
| 92.5°  | 1.1    | 169.1  | 398.9  | 570.3  | 630.8  |
| 95°    | 1.1    | 153.1  | 368.0  | 530.3  | 589.7  |
| 97.5°  | 2.3    | 140.6  | 340.6  | 494.9  | 547.4  |
| 100°   | 2.3    | 128.0  | 317.7  | 460.6  | 510.9  |
| 102.5° | 2.3    | 115.4  | 297.1  | 429.7  | 476.6  |
| 105°   | 2.3    | 98.3   | 278.9  | 401.1  | 446.9  |
| 107.5° | 2.3    | 76.6   | 258.3  | 377.1  | 417.1  |
| 110°   | 2.3    | 56.0   | 236.6  | 353.1  | 392.0  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.3 | 34.3  | 217.1 | 329.1 | 366.9 |
| 115°   | 2.3 | 12.6  | 193.1 | 302.9 | 340.6 |
| 117.5° | 2.3 | 4.6   | 164.6 | 277.7 | 310.9 |
| 120°   | 2.3 | 3.4   | 137.1 | 250.3 | 283.4 |
| 122.5° | 2.3 | 3.4   | 108.6 | 220.6 | 256.0 |
| 125°   | 2.3 | 3.4   | 81.1  | 188.6 | 226.3 |
| 127.5° | 2.3 | 2.3   | 52.6  | 155.4 | 189.7 |
| 130°   | 2.3 | 2.3   | 25.1  | 123.4 | 156.6 |
| 132.5° | 2.3 | 2.3   | 1.1   | 90.3  | 122.3 |
| 135°   | 2.3 | 1.1   | 1.1   | 59.4  | 88.0  |
| 137.5° | 2.3 | 1.1   | 0.0   | 28.6  | 57.1  |
| 140°   | 2.3 | 1.1   | 0.0   | 0.0   | 22.9  |
| 142.5° | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 145°   | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 147.5° | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 150°   | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 152.5° | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 155°   | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 157.5° | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 160°   | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 162.5° | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 165°   | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 167.5° | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 170°   | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 172.5° | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 175°   | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 177.5° | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 180°   | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)