

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: P290421

Luminaire Tested: **8SSRK-SLN-10-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290421  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-15)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-SLN-10-L935-CD1-U  
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

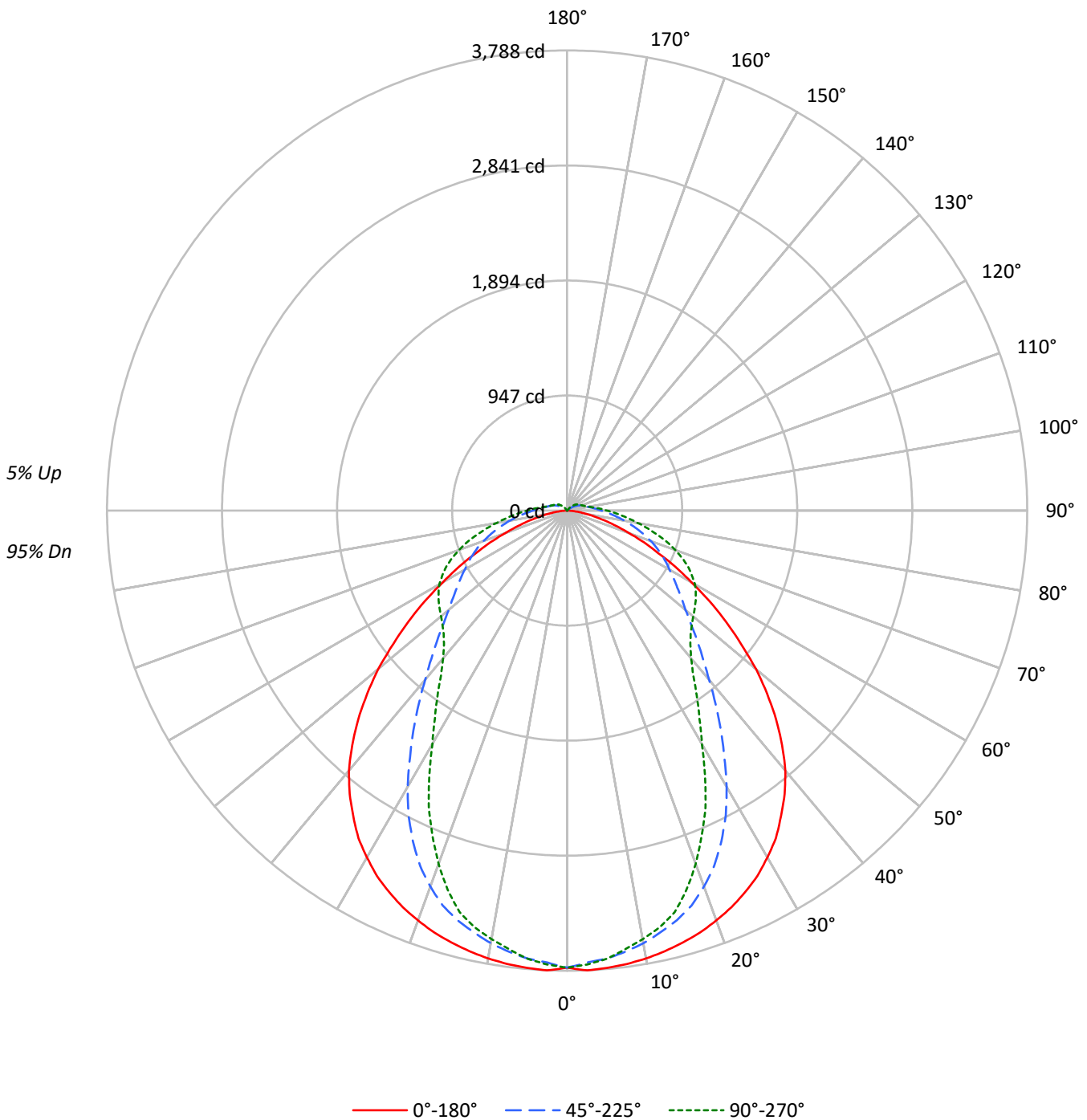
Lumens per Lamp: N/A  
Luminaire Lumens: 8908.3 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 71.9151  
Input Voltage (V): NR  
Input 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 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |   |
| 0   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 108 | 108 | 108 | 103 | 103 | 103 | 98 | 98 | 98 | 95 |    |    |    |   |
| 1   | 107 | 102 | 98  | 94  | 104 | 100 | 96  | 92  | 94  | 91  | 88  | 90  | 87  | 85  | 85 | 83 | 81 | 79 |    |    |    |   |
| 2   | 98  | 90  | 83  | 77  | 95  | 87  | 81  | 76  | 83  | 78  | 73  | 79  | 75  | 71  | 75 | 72 | 69 | 66 |    |    |    |   |
| 3   | 90  | 79  | 71  | 65  | 87  | 77  | 70  | 64  | 74  | 67  | 62  | 70  | 65  | 60  | 67 | 63 | 59 | 56 |    |    |    |   |
| 4   | 82  | 71  | 62  | 56  | 80  | 69  | 61  | 55  | 66  | 59  | 54  | 63  | 57  | 52  | 60 | 55 | 51 | 49 |    |    |    |   |
| 5   | 76  | 64  | 55  | 48  | 74  | 62  | 54  | 48  | 60  | 52  | 47  | 57  | 51  | 46  | 55 | 49 | 45 | 43 |    |    |    |   |
| 6   | 71  | 58  | 49  | 43  | 68  | 56  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 41  | 50 | 45 | 40 | 38 |    |    |    |   |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 42  | 37  | 48  | 41  | 37  | 46 | 40 | 36 | 34 |    |    |    |   |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 40  | 34  | 46  | 39  | 34  | 44  | 38  | 33  | 43 | 37 | 33 | 31 |    |    |    |   |
| 9   | 57  | 44  | 37  | 31  | 56  | 44  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 30  | 40 | 34 | 30 | 28 |    |    |    |   |
| 10  | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 37 | 31 | 27 | 26 |    |    |    |   |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 121500 | 121500 | 121500 |
| 5°  | 122276 | 96094  | 88964  |
| 10° | 122286 | 78986  | 68884  |
| 15° | 122352 | 66240  | 55218  |
| 20° | 122465 | 55617  | 43303  |
| 25° | 122311 | 46006  | 33518  |
| 30° | 121452 | 37074  | 25012  |
| 35° | 119281 | 29083  | 19288  |
| 40° | 115762 | 22616  | 15347  |
| 45° | 108885 | 17966  | 13132  |
| 50° | 99485  | 14563  | 11807  |
| 55° | 87267  | 12320  | 10841  |
| 60° | 73772  | 10613  | 9901   |
| 65° | 60597  | 9219   | 8777   |
| 70° | 48527  | 7852   | 7448   |
| 75° | 37288  | 6481   | 6014   |
| 80° | 26876  | 5197   | 4646   |
| 85° | 16937  | 4064   | 3534   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 353.3  | 4.0       |
| 10°-20°   | 990.4  | 11.1      |
| 20°-30°   | 1392.7 | 15.6      |
| 30°-40°   | 1458.5 | 16.4      |
| 40°-50°   | 1320.4 | 14.8      |
| 50°-60°   | 1123.8 | 12.6      |
| 60°-70°   | 888.7  | 10.0      |
| 70°-80°   | 605.1  | 6.8       |
| 80°-90°   | 345.3  | 3.9       |
| 90°-100°  | 191.5  | 2.1       |
| 100°-110° | 117.0  | 1.3       |
| 110°-120° | 71.1   | 0.8       |
| 120°-130° | 38.6   | 0.4       |
| 130°-140° | 11.7   | 0.1       |
| 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°    | 2736.5 | 30.7      |
| 0°-40°    | 4194.9 | 47.1      |
| 0°-60°    | 6639.2 | 74.5      |
| 0°-90°    | 8478.2 | 95.2      |
| 90°-120°  | 379.6  | 4.3       |
| 90°-150°  | 430.1  | 4.8       |
| 90°-180°  | 430.0  | 4.8       |
| 0°-180°   | 8908.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3763 | 3763  | 3763 | 3763  | 3763 |      |
| 5°   | 3779 | 3755  | 3702 | 3718  | 3705 | 360  |
| 15°  | 3680 | 3610  | 3491 | 3455  | 3422 | 1040 |
| 25°  | 3466 | 3294  | 3003 | 2770  | 2695 | 1597 |
| 35°  | 3070 | 2724  | 2206 | 1931  | 1860 | 1918 |
| 45°  | 2434 | 1933  | 1512 | 1433  | 1438 | 1869 |
| 55°  | 1596 | 1218  | 1107 | 1235  | 1293 | 1427 |
| 65°  | 828  | 719   | 856  | 1046  | 1100 | 834  |
| 75°  | 322  | 392   | 603  | 741   | 768  | 351  |
| 85°  | 57   | 186   | 367  | 440   | 446  | 68   |
| 90°  | 1    | 130   | 281  | 327   | 327  | 3    |
| 95°  | 2    | 100   | 221  | 245   | 243  | 2    |
| 105° | 2    | 61    | 148  | 154   | 148  | 2    |
| 115° | 2    | 8     | 100  | 116   | 113  | 1    |
| 125° | 1    | 2     | 45   | 80    | 85   | 1    |
| 135° | 2    | 2     | 2    | 33    | 43   | 1    |
| 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°     | 3762.6 | 3762.6 | 3762.6 | 3762.6 | 3762.6 |
| 2.5°   | 3788.4 | 3767.8 | 3724.6 | 3752.4 | 3740.0 |
| 5°     | 3779.1 | 3755.4 | 3701.9 | 3718.4 | 3705.0 |
| 7.5°   | 3764.7 | 3732.8 | 3663.8 | 3669.0 | 3643.3 |
| 10°    | 3743.1 | 3701.9 | 3616.5 | 3607.2 | 3582.5 |
| 12.5°  | 3715.3 | 3658.7 | 3555.8 | 3543.4 | 3514.6 |
| 15°    | 3680.3 | 3610.3 | 3490.9 | 3454.9 | 3422.0 |
| 17.5°  | 3641.2 | 3552.7 | 3407.6 | 3327.3 | 3270.7 |
| 20°    | 3590.8 | 3478.6 | 3293.3 | 3177.0 | 3094.7 |
| 22.5°  | 3534.2 | 3398.3 | 3164.7 | 2989.7 | 2896.1 |
| 25°    | 3466.2 | 3294.4 | 3003.1 | 2770.5 | 2695.4 |
| 27.5°  | 3391.1 | 3186.3 | 2827.1 | 2555.4 | 2455.6 |
| 30°    | 3296.4 | 3049.4 | 2626.4 | 2335.2 | 2219.9 |
| 32.5°  | 3197.6 | 2902.3 | 2408.3 | 2114.9 | 2025.4 |
| 35°    | 3070.0 | 2724.2 | 2206.5 | 1930.7 | 1859.7 |
| 37.5°  | 2941.4 | 2533.8 | 2005.9 | 1766.1 | 1703.3 |
| 40°    | 2794.2 | 2341.4 | 1816.5 | 1630.2 | 1586.0 |
| 42.5°  | 2619.2 | 2145.8 | 1655.9 | 1516.0 | 1500.5 |
| 45°    | 2434.0 | 1932.8 | 1511.9 | 1432.6 | 1437.8 |
| 47.5°  | 2232.3 | 1739.3 | 1381.1 | 1365.7 | 1391.4 |
| 50°    | 2029.5 | 1559.2 | 1272.1 | 1315.3 | 1355.4 |
| 52.5°  | 1804.1 | 1385.3 | 1185.6 | 1274.1 | 1322.5 |
| 55°    | 1596.2 | 1218.5 | 1107.4 | 1235.0 | 1292.6 |
| 57.5°  | 1389.4 | 1076.5 | 1039.5 | 1194.9 | 1255.6 |
| 60°    | 1183.5 | 946.8  | 973.6  | 1151.6 | 1215.5 |
| 62.5°  | 1004.5 | 823.3  | 916.0  | 1103.3 | 1158.8 |
| 65°    | 828.5  | 719.4  | 856.3  | 1045.6 | 1100.2 |
| 67.5°  | 682.3  | 626.8  | 796.6  | 976.7  | 1026.1 |
| 70°    | 543.4  | 539.3  | 732.8  | 900.5  | 945.8  |
| 72.5°  | 424.0  | 460.0  | 665.9  | 821.3  | 864.5  |
| 75°    | 322.1  | 392.1  | 603.1  | 741.0  | 767.8  |
| 77.5°  | 235.7  | 328.3  | 539.3  | 659.7  | 678.2  |
| 80°    | 161.6  | 272.7  | 478.6  | 578.4  | 591.8  |
| 82.5°  | 101.9  | 225.4  | 419.9  | 505.3  | 514.6  |
| 85°    | 56.6   | 186.3  | 367.4  | 439.5  | 445.6  |
| 87.5°  | 21.6   | 153.3  | 320.1  | 381.8  | 387.0  |
| 90°    | 1.0    | 129.7  | 281.0  | 327.3  | 327.3  |
| 92.5°  | 1.0    | 113.2  | 249.1  | 284.1  | 286.1  |
| 95°    | 2.1    | 99.8   | 221.3  | 244.9  | 242.9  |
| 97.5°  | 2.1    | 90.6   | 195.5  | 215.1  | 208.9  |
| 100°   | 2.1    | 82.3   | 176.0  | 189.4  | 183.2  |
| 102.5° | 2.1    | 73.1   | 160.6  | 168.8  | 161.6  |
| 105°   | 2.1    | 60.7   | 148.2  | 154.4  | 148.2  |
| 107.5° | 2.1    | 48.4   | 134.8  | 143.1  | 136.9  |
| 110°   | 2.1    | 36.0   | 122.5  | 132.8  | 127.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 1.0 | 22.6  | 111.2 | 123.5 | 120.4 |
| 115°   | 2.1 | 8.2   | 99.8  | 116.3 | 113.2 |
| 117.5° | 1.0 | 4.1   | 85.4  | 108.1 | 107.0 |
| 120°   | 1.0 | 3.1   | 72.0  | 100.9 | 100.9 |
| 122.5° | 1.0 | 3.1   | 59.7  | 90.6  | 94.7  |
| 125°   | 1.0 | 2.1   | 45.3  | 80.3  | 85.4  |
| 127.5° | 1.0 | 2.1   | 31.9  | 70.0  | 76.2  |
| 130°   | 1.0 | 2.1   | 16.5  | 57.6  | 65.9  |
| 132.5° | 1.0 | 2.1   | 2.1   | 45.3  | 54.5  |
| 135°   | 2.1 | 2.1   | 2.1   | 32.9  | 43.2  |
| 137.5° | 2.1 | 2.1   | 2.1   | 17.5  | 30.9  |
| 140°   | 2.1 | 2.1   | 1.0   | 1.0   | 14.4  |
| 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)