

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: P290491

Luminaire Tested: **8SSRK-SLW-50-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290491  
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-50-L850-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4960.6 lumens  
Efficiency: N/A  
Efficacy: 145.1 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

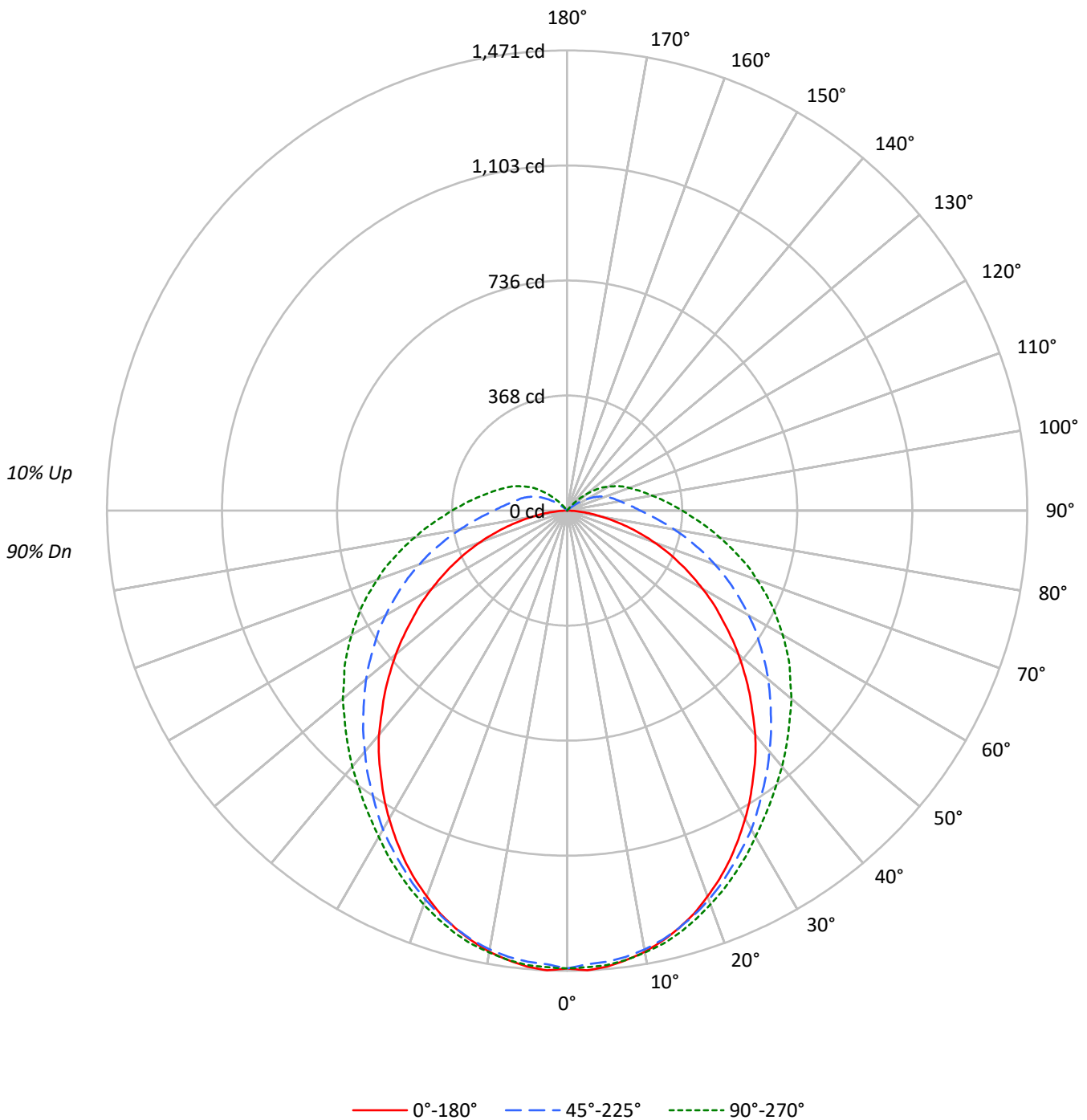
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 47262 | 47262 | 47262 |
| 5°  | 47356 | 37574 | 35024 |
| 10° | 46783 | 31114 | 27583 |
| 15° | 45925 | 26212 | 22529 |
| 20° | 44753 | 22358 | 18750 |
| 25° | 43449 | 19175 | 15864 |
| 30° | 41928 | 16621 | 13567 |
| 35° | 40303 | 14372 | 11771 |
| 40° | 38778 | 12523 | 10342 |
| 45° | 36866 | 10945 | 9135  |
| 50° | 35039 | 9605  | 8154  |
| 55° | 33033 | 8378  | 7285  |
| 60° | 31117 | 7307  | 6487  |
| 65° | 28964 | 6312  | 5776  |
| 70° | 26371 | 5382  | 5084  |
| 75° | 22956 | 4527  | 4457  |
| 80° | 18593 | 3770  | 3886  |
| 85° | 13137 | 3143  | 3385  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 138.3  | 2.8       |
| 10°-20°   | 391.2  | 7.9       |
| 20°-30°   | 578.7  | 11.7      |
| 30°-40°   | 683.4  | 13.8      |
| 40°-50°   | 710.5  | 14.3      |
| 50°-60°   | 669.8  | 13.5      |
| 60°-70°   | 571.0  | 11.5      |
| 70°-80°   | 431.8  | 8.7       |
| 80°-90°   | 291.4  | 5.9       |
| 90°-100°  | 200.0  | 4.0       |
| 100°-110° | 143.5  | 2.9       |
| 110°-120° | 92.0   | 1.9       |
| 120°-130° | 47.0   | 0.9       |
| 130°-140° | 11.9   | 0.2       |
| 140°-150° | 0.2    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1108.2 | 22.3      |
| 0°-40°    | 1791.6 | 36.1      |
| 0°-60°    | 3171.9 | 63.9      |
| 0°-90°    | 4466.1 | 90.0      |
| 90°-120°  | 435.5  | 8.8       |
| 90°-150°  | 494.5  | 10.0      |
| 90°-180°  | 495.0  | 10.0      |
| 0°-180°   | 4960.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1464 | 1464  | 1464 | 1464  | 1464 |      |
| 5°   | 1464 | 1460  | 1448 | 1461  | 1459 | 139  |
| 15°  | 1381 | 1386  | 1381 | 1395  | 1396 | 389  |
| 25°  | 1231 | 1246  | 1252 | 1273  | 1276 | 566  |
| 35°  | 1037 | 1062  | 1090 | 1123  | 1135 | 650  |
| 45°  | 824  | 865   | 921  | 978   | 1000 | 636  |
| 55°  | 604  | 667   | 753  | 834   | 869  | 542  |
| 65°  | 396  | 476   | 586  | 683   | 724  | 393  |
| 75°  | 198  | 295   | 421  | 529   | 569  | 212  |
| 85°  | 44   | 148   | 284  | 389   | 427  | 50   |
| 90°  | 1    | 104   | 234  | 333   | 368  | 3    |
| 95°  | 1    | 83    | 199  | 287   | 319  | 1    |
| 105° | 1    | 53    | 151  | 217   | 242  | 1    |
| 115° | 1    | 7     | 104  | 164   | 184  | 1    |
| 125° | 1    | 2     | 44   | 102   | 122  | 1    |
| 135° | 1    | 1     | 1    | 32    | 48   | 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°     | 1463.6 | 1463.6 | 1463.6 | 1463.6 | 1463.6 |
| 2.5°   | 1471.0 | 1466.0 | 1451.8 | 1464.2 | 1461.1 |
| 5°     | 1463.6 | 1459.8 | 1447.5 | 1461.1 | 1458.6 |
| 7.5°   | 1449.3 | 1448.7 | 1438.8 | 1453.1 | 1448.7 |
| 10°    | 1432.0 | 1432.7 | 1424.6 | 1438.8 | 1434.5 |
| 12.5°  | 1408.6 | 1411.0 | 1405.5 | 1419.1 | 1418.5 |
| 15°    | 1381.4 | 1385.7 | 1381.4 | 1395.0 | 1396.2 |
| 17.5°  | 1350.5 | 1357.3 | 1354.2 | 1370.9 | 1369.0 |
| 20°    | 1312.2 | 1321.5 | 1323.9 | 1340.6 | 1340.0 |
| 22.5°  | 1273.9 | 1285.6 | 1290.0 | 1307.3 | 1309.7 |
| 25°    | 1231.3 | 1245.5 | 1251.7 | 1273.3 | 1275.7 |
| 27.5°  | 1184.9 | 1203.5 | 1214.6 | 1236.2 | 1241.8 |
| 30°    | 1138.0 | 1157.7 | 1177.5 | 1199.1 | 1204.1 |
| 32.5°  | 1089.2 | 1110.8 | 1133.7 | 1163.3 | 1168.9 |
| 35°    | 1037.3 | 1062.0 | 1090.4 | 1123.2 | 1134.9 |
| 37.5°  | 988.5  | 1016.3 | 1049.6 | 1087.9 | 1100.3 |
| 40°    | 936.0  | 964.4  | 1005.8 | 1049.0 | 1068.8 |
| 42.5°  | 877.3  | 915.6  | 965.0  | 1016.9 | 1034.2 |
| 45°    | 824.1  | 864.9  | 921.1  | 978.0  | 1000.2 |
| 47.5°  | 768.5  | 816.1  | 879.7  | 942.8  | 966.8  |
| 50°    | 714.8  | 766.7  | 839.0  | 906.9  | 936.0  |
| 52.5°  | 659.2  | 717.9  | 796.3  | 871.7  | 898.9  |
| 55°    | 604.2  | 666.6  | 753.1  | 834.0  | 868.6  |
| 57.5°  | 554.8  | 618.4  | 714.2  | 797.0  | 832.2  |
| 60°    | 499.2  | 572.7  | 670.3  | 759.3  | 796.3  |
| 62.5°  | 447.9  | 522.7  | 627.1  | 721.6  | 758.7  |
| 65°    | 396.0  | 476.3  | 586.3  | 683.3  | 724.1  |
| 67.5°  | 347.2  | 428.1  | 544.9  | 645.6  | 684.5  |
| 70°    | 295.3  | 383.0  | 502.3  | 606.1  | 645.6  |
| 72.5°  | 247.7  | 337.9  | 462.7  | 567.8  | 610.4  |
| 75°    | 198.3  | 294.7  | 421.3  | 528.8  | 569.0  |
| 77.5°  | 154.4  | 252.7  | 384.3  | 492.4  | 532.5  |
| 80°    | 111.8  | 214.4  | 347.2  | 455.9  | 494.9  |
| 82.5°  | 76.0   | 179.2  | 314.5  | 422.6  | 460.9  |
| 85°    | 43.9   | 147.7  | 284.2  | 389.2  | 426.9  |
| 87.5°  | 16.7   | 122.9  | 257.0  | 360.2  | 394.8  |
| 90°    | 0.6    | 104.4  | 233.5  | 333.0  | 368.2  |
| 92.5°  | 0.6    | 91.4   | 215.6  | 308.3  | 341.0  |
| 95°    | 0.6    | 82.8   | 198.9  | 286.7  | 318.8  |
| 97.5°  | 1.2    | 76.0   | 184.1  | 267.5  | 295.9  |
| 100°   | 1.2    | 69.2   | 171.7  | 249.0  | 276.2  |
| 102.5° | 1.2    | 62.4   | 160.6  | 232.3  | 257.6  |
| 105°   | 1.2    | 53.1   | 150.7  | 216.8  | 241.6  |
| 107.5° | 1.2    | 41.4   | 139.6  | 203.9  | 225.5  |
| 110°   | 1.2    | 30.3   | 127.9  | 190.9  | 211.9  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 1.2 | 18.5  | 117.4 | 177.9 | 198.3 |
| 115°   | 1.2 | 6.8   | 104.4 | 163.7 | 184.1 |
| 117.5° | 1.2 | 2.5   | 89.0  | 150.1 | 168.0 |
| 120°   | 1.2 | 1.9   | 74.1  | 135.3 | 153.2 |
| 122.5° | 1.2 | 1.9   | 58.7  | 119.2 | 138.4 |
| 125°   | 1.2 | 1.9   | 43.9  | 101.9 | 122.3 |
| 127.5° | 1.2 | 1.2   | 28.4  | 84.0  | 102.6 |
| 130°   | 1.2 | 1.2   | 13.6  | 66.7  | 84.6  |
| 132.5° | 1.2 | 1.2   | 0.6   | 48.8  | 66.1  |
| 135°   | 1.2 | 0.6   | 0.6   | 32.1  | 47.6  |
| 137.5° | 1.2 | 0.6   | 0.0   | 15.4  | 30.9  |
| 140°   | 1.2 | 0.6   | 0.0   | 0.0   | 12.4  |
| 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)