

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: P289692

Luminaire Tested: **8SSRK-50-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289692  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-50-L930-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH NO LENS AND 90 CRI 3000K CCT LEDs  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4374.3 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

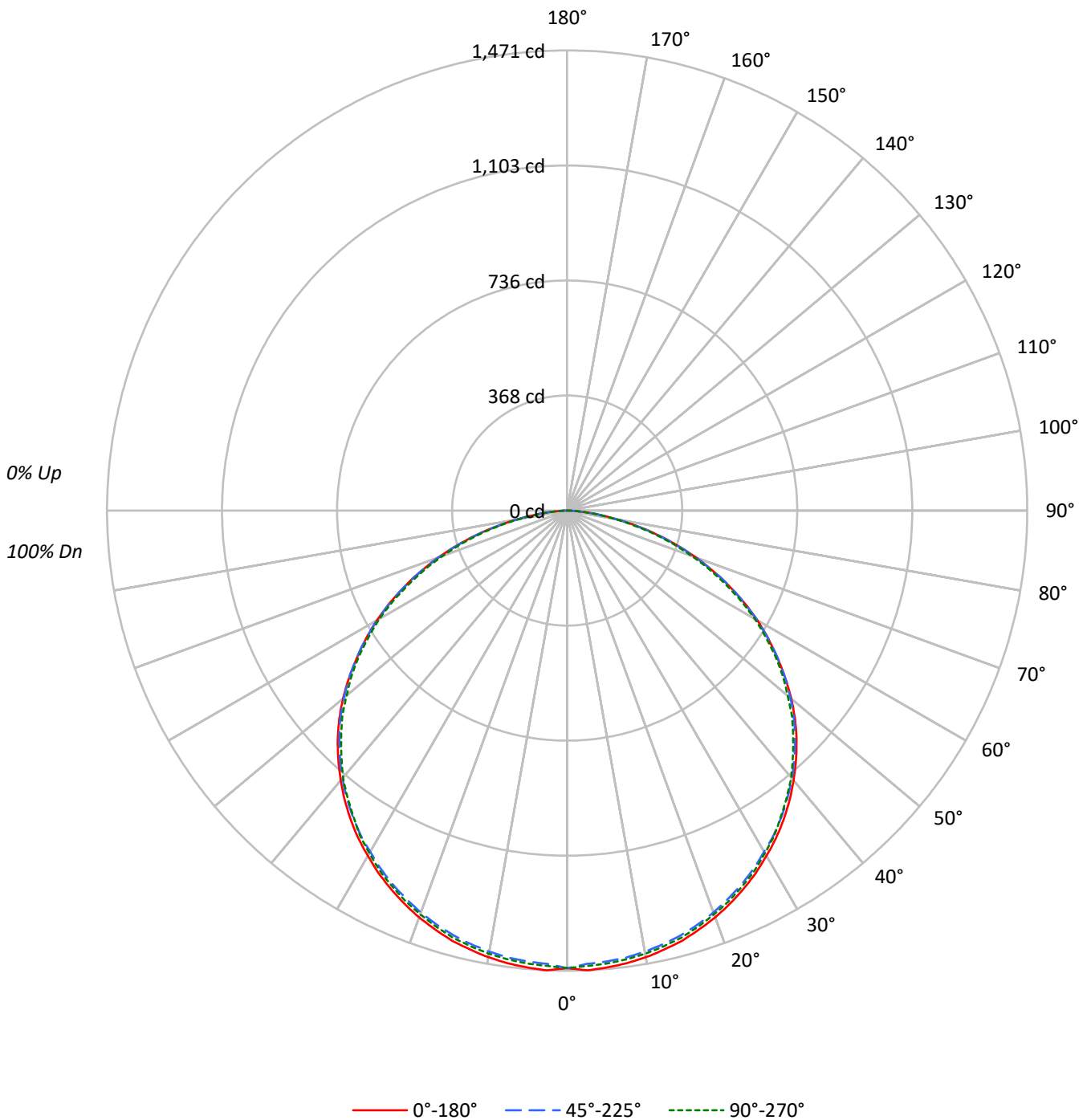
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P289692

CATALOG NUMBER: 8SSRK-50-L930-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P289692

CATALOG NUMBER: 8SSRK-50-L930-CD1-U

**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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  | 93  | 91  | 88  | 90  | 88  | 86  | 84  |
| 2   | 99  | 90  | 83  | 78  | 96  | 88  | 82  | 77  | 85  | 79  | 75  | 81  | 77  | 73  | 78  | 75  | 71  | 69  |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 64  | 74  | 68  | 62  | 72  | 66  | 61  | 69  | 64  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 68  | 60  | 54  | 66  | 59  | 53  | 64  | 57  | 52  | 61  | 56  | 51  | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 42  |
| 6   | 69  | 56  | 47  | 40  | 68  | 55  | 46  | 40  | 53  | 46  | 40  | 51  | 45  | 39  | 50  | 44  | 39  | 37  |
| 7   | 64  | 51  | 42  | 36  | 63  | 50  | 41  | 35  | 48  | 41  | 35  | 47  | 40  | 35  | 45  | 39  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 41  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  | 37  | 30  | 25  | 36  | 30  | 25  | 23  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 47223 | 47223 | 47223 |
| 5°  | 47443 | 37561 | 34896 |
| 10° | 47368 | 31267 | 27658 |
| 15° | 47308 | 26664 | 22799 |
| 20° | 47188 | 23089 | 19219 |
| 25° | 47076 | 20202 | 16475 |
| 30° | 46954 | 17779 | 14245 |
| 35° | 46866 | 15746 | 12365 |
| 40° | 46645 | 13916 | 10783 |
| 45° | 46408 | 12242 | 9331  |
| 50° | 45858 | 10672 | 8015  |
| 55° | 44864 | 9141  | 6814  |
| 60° | 43752 | 7651  | 5643  |
| 65° | 41880 | 6169  | 4456  |
| 70° | 39195 | 4662  | 3328  |
| 75° | 34451 | 3187  | 2252  |
| 80° | 27258 | 1780  | 1215  |
| 85° | 17566 | 644   | 400   |



TEST NUMBER: P289692

CATALOG NUMBER: 8SSRK-50-L930-CD1-U

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 138.6  | 3.2       |
| 10°-20°   | 399.3  | 9.1       |
| 20°-30°   | 611.9  | 14.0      |
| 30°-40°   | 750.1  | 17.1      |
| 40°-50°   | 794.7  | 18.2      |
| 50°-60°   | 732.7  | 16.8      |
| 60°-70°   | 563.1  | 12.9      |
| 70°-80°   | 312.1  | 7.1       |
| 80°-90°   | 71.8   | 1.6       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1149.8 | 26.3      |
| 0°-40°    | 1900.0 | 43.4      |
| 0°-60°    | 3427.3 | 78.4      |
| 0°-90°    | 4374.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4374.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1462 | 1462  | 1462 | 1462  | 1462 |      |
| 5°  | 1466 | 1460  | 1447 | 1461  | 1453 | 139  |
| 15° | 1423 | 1416  | 1405 | 1418  | 1413 | 402  |
| 25° | 1334 | 1329  | 1319 | 1332  | 1325 | 615  |
| 35° | 1206 | 1200  | 1195 | 1199  | 1192 | 755  |
| 45° | 1037 | 1034  | 1030 | 1029  | 1022 | 799  |
| 55° | 821  | 827   | 822  | 818   | 812  | 734  |
| 65° | 573  | 574   | 573  | 565   | 559  | 566  |
| 75° | 298  | 298   | 297  | 292   | 288  | 315  |
| 85° | 59   | 60    | 58   | 55    | 50   | 73   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P289692

CATALOG NUMBER: 8SSRK-50-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1462.4 | 1462.4 | 1462.4 | 1462.4 | 1462.4 |
| 2.5°  | 1471.1 | 1463.9 | 1450.4 | 1463.9 | 1457.1 |
| 5°    | 1466.3 | 1460.0 | 1447.0 | 1461.0 | 1453.3 |
| 7.5°  | 1459.5 | 1454.2 | 1441.3 | 1454.7 | 1447.0 |
| 10°   | 1449.9 | 1444.1 | 1431.6 | 1446.1 | 1438.4 |
| 12.5° | 1436.9 | 1431.6 | 1419.6 | 1433.1 | 1426.4 |
| 15°   | 1423.0 | 1416.3 | 1405.2 | 1417.7 | 1412.9 |
| 17.5° | 1403.8 | 1398.5 | 1387.4 | 1399.4 | 1394.1 |
| 20°   | 1383.6 | 1378.3 | 1367.2 | 1379.2 | 1373.5 |
| 22.5° | 1360.5 | 1355.2 | 1343.7 | 1356.6 | 1350.9 |
| 25°   | 1334.1 | 1329.2 | 1318.7 | 1332.1 | 1324.9 |
| 27.5° | 1306.2 | 1302.3 | 1290.8 | 1301.8 | 1297.5 |
| 30°   | 1274.4 | 1272.0 | 1259.5 | 1268.2 | 1264.3 |
| 32.5° | 1242.2 | 1237.9 | 1229.3 | 1236.0 | 1232.1 |
| 35°   | 1206.2 | 1200.4 | 1194.6 | 1199.0 | 1192.2 |
| 37.5° | 1167.7 | 1163.9 | 1157.6 | 1161.5 | 1153.8 |
| 40°   | 1125.9 | 1122.5 | 1117.7 | 1118.7 | 1114.4 |
| 42.5° | 1082.6 | 1078.8 | 1074.9 | 1073.0 | 1068.2 |
| 45°   | 1037.4 | 1034.1 | 1030.2 | 1028.8 | 1021.6 |
| 47.5° | 988.4  | 986.0  | 983.6  | 980.2  | 974.9  |
| 50°   | 935.5  | 936.5  | 932.2  | 929.3  | 920.1  |
| 52.5° | 878.8  | 884.6  | 878.3  | 874.0  | 868.7  |
| 55°   | 820.6  | 826.9  | 821.6  | 818.2  | 812.4  |
| 57.5° | 762.9  | 765.8  | 762.5  | 760.0  | 752.4  |
| 60°   | 701.9  | 704.3  | 701.9  | 696.6  | 692.7  |
| 62.5° | 638.9  | 641.8  | 637.0  | 633.1  | 627.8  |
| 65°   | 572.6  | 574.0  | 573.0  | 565.3  | 558.6  |
| 67.5° | 505.7  | 508.1  | 505.3  | 500.0  | 493.2  |
| 70°   | 438.9  | 437.5  | 435.1  | 431.2  | 422.6  |
| 72.5° | 368.2  | 368.2  | 367.8  | 360.6  | 356.2  |
| 75°   | 297.6  | 298.1  | 296.6  | 291.8  | 287.5  |
| 77.5° | 226.9  | 232.2  | 228.4  | 223.5  | 218.7  |
| 80°   | 163.9  | 167.3  | 163.9  | 157.7  | 154.8  |
| 82.5° | 104.8  | 109.6  | 106.7  | 100.5  | 99.5   |
| 85°   | 58.7   | 59.6   | 58.2   | 55.3   | 50.5   |
| 87.5° | 22.1   | 23.1   | 23.6   | 19.2   | 16.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)