

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: P290472

Luminaire Tested: **4SSRK-SLW-80-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290472  
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: 4SSRK-SLW-80-L830-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7761.7 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

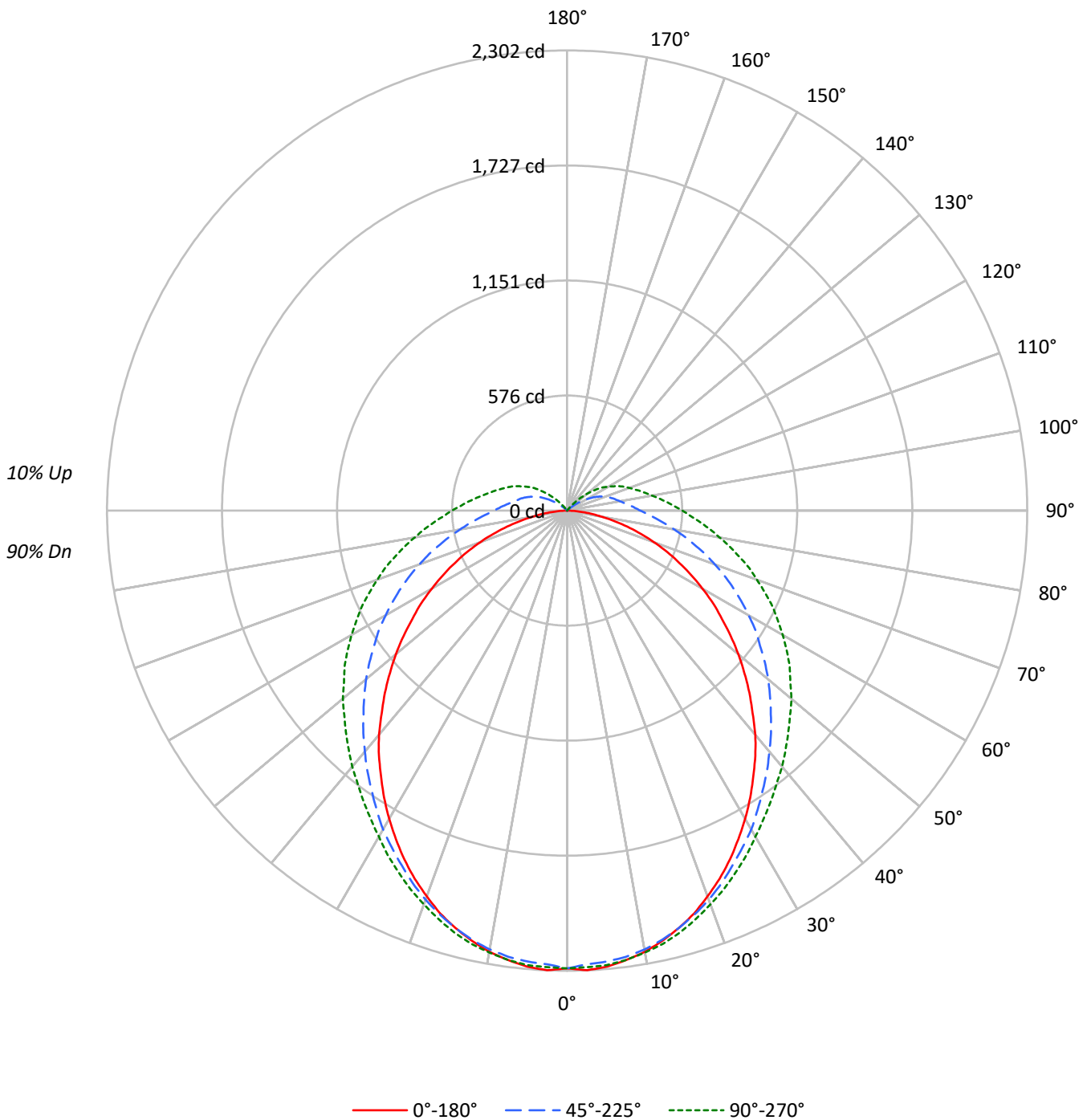
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 147895 | 147895 | 147895 |
| 5°  | 147921 | 117463 | 109604 |
| 10° | 145872 | 97201  | 86318  |
| 15° | 142918 | 81842  | 70502  |
| 20° | 139004 | 69783  | 58676  |
| 25° | 134665 | 59827  | 49644  |
| 30° | 129667 | 51847  | 42454  |
| 35° | 124332 | 44821  | 36834  |
| 40° | 119297 | 39044  | 32363  |
| 45° | 113064 | 34122  | 28588  |
| 50° | 107053 | 29935  | 25515  |
| 55° | 100471 | 26109  | 22798  |
| 60° | 94100  | 22768  | 20300  |
| 65° | 86918  | 19664  | 18075  |
| 70° | 78294  | 16765  | 15908  |
| 75° | 67009  | 14102  | 13947  |
| 80° | 52645  | 11743  | 12159  |
| 85° | 34434  | 9788   | 10595  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 216.4  | 2.8       |
| 10°-20°   | 612.0  | 7.9       |
| 20°-30°   | 905.5  | 11.7      |
| 30°-40°   | 1069.4 | 13.8      |
| 40°-50°   | 1111.6 | 14.3      |
| 50°-60°   | 1048.1 | 13.5      |
| 60°-70°   | 893.4  | 11.5      |
| 70°-80°   | 675.6  | 8.7       |
| 80°-90°   | 455.9  | 5.9       |
| 90°-100°  | 313.0  | 4.0       |
| 100°-110° | 224.5  | 2.9       |
| 110°-120° | 144.0  | 1.9       |
| 120°-130° | 73.5   | 0.9       |
| 130°-140° | 18.7   | 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°    | 1733.9 | 22.3      |
| 0°-40°    | 2803.3 | 36.1      |
| 0°-60°    | 4962.9 | 63.9      |
| 0°-90°    | 6987.8 | 90.0      |
| 90°-120°  | 681.5  | 8.8       |
| 90°-150°  | 773.9  | 10.0      |
| 90°-180°  | 774.0  | 10.0      |
| 0°-180°   | 7761.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2290 | 2290  | 2290 | 2290  | 2290 |      |
| 5°   | 2290 | 2284  | 2265 | 2286  | 2282 | 217  |
| 15°  | 2161 | 2168  | 2161 | 2183  | 2185 | 609  |
| 25°  | 1926 | 1949  | 1958 | 1992  | 1996 | 886  |
| 35°  | 1623 | 1662  | 1706 | 1757  | 1776 | 1016 |
| 45°  | 1290 | 1353  | 1441 | 1530  | 1565 | 995  |
| 55°  | 945  | 1043  | 1178 | 1305  | 1359 | 848  |
| 65°  | 620  | 745   | 917  | 1069  | 1133 | 615  |
| 75°  | 310  | 461   | 659  | 827   | 890  | 332  |
| 85°  | 69   | 231   | 445  | 609   | 668  | 78   |
| 90°  | 1    | 163   | 365  | 521   | 576  | 4    |
| 95°  | 1    | 130   | 311  | 448   | 499  | 1    |
| 105° | 2    | 83    | 236  | 339   | 378  | 2    |
| 115° | 2    | 11    | 163  | 256   | 288  | 2    |
| 125° | 2    | 3     | 69   | 160   | 191  | 2    |
| 135° | 2    | 1     | 1    | 50    | 74   | 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    |



TEST NUMBER: P290472

CATALOG NUMBER: 4SSRK-SLW-80-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2290.0 | 2290.0 | 2290.0 | 2290.0 | 2290.0 |
| 2.5°   | 2301.6 | 2293.9 | 2271.6 | 2291.0 | 2286.1 |
| 5°     | 2290.0 | 2284.2 | 2264.9 | 2286.1 | 2282.3 |
| 7.5°   | 2267.8 | 2266.8 | 2251.3 | 2273.6 | 2266.8 |
| 10°    | 2240.7 | 2241.7 | 2229.1 | 2251.3 | 2244.6 |
| 12.5°  | 2204.0 | 2207.8 | 2199.1 | 2220.4 | 2219.4 |
| 15°    | 2161.4 | 2168.2 | 2161.4 | 2182.7 | 2184.6 |
| 17.5°  | 2113.1 | 2123.7 | 2118.9 | 2145.0 | 2142.1 |
| 20°    | 2053.2 | 2067.7 | 2071.5 | 2097.6 | 2096.7 |
| 22.5°  | 1993.2 | 2011.6 | 2018.4 | 2045.4 | 2049.3 |
| 25°    | 1926.5 | 1948.8 | 1958.4 | 1992.3 | 1996.1 |
| 27.5°  | 1854.0 | 1883.0 | 1900.4 | 1934.3 | 1943.0 |
| 30°    | 1780.6 | 1811.5 | 1842.4 | 1876.3 | 1884.0 |
| 32.5°  | 1704.2 | 1738.0 | 1773.8 | 1820.2 | 1828.9 |
| 35°    | 1623.0 | 1661.7 | 1706.1 | 1757.4 | 1775.7 |
| 37.5°  | 1546.6 | 1590.1 | 1642.3 | 1702.3 | 1721.6 |
| 40°    | 1464.5 | 1508.9 | 1573.7 | 1641.4 | 1672.3 |
| 42.5°  | 1372.6 | 1432.6 | 1509.9 | 1591.1 | 1618.2 |
| 45°    | 1289.5 | 1353.3 | 1441.3 | 1530.2 | 1565.0 |
| 47.5°  | 1202.5 | 1276.9 | 1376.5 | 1475.1 | 1512.8 |
| 50°    | 1118.4 | 1199.6 | 1312.7 | 1419.0 | 1464.5 |
| 52.5°  | 1031.4 | 1123.2 | 1246.0 | 1363.9 | 1406.5 |
| 55°    | 945.4  | 1043.0 | 1178.3 | 1305.0 | 1359.1 |
| 57.5°  | 868.0  | 967.6  | 1117.4 | 1247.0 | 1302.1 |
| 60°    | 781.1  | 896.1  | 1048.8 | 1188.0 | 1246.0 |
| 62.5°  | 700.8  | 817.8  | 981.1  | 1129.0 | 1187.0 |
| 65°    | 619.6  | 745.3  | 917.3  | 1069.1 | 1132.9 |
| 67.5°  | 543.3  | 669.9  | 852.6  | 1010.1 | 1071.0 |
| 70°    | 462.1  | 599.3  | 785.9  | 948.3  | 1010.1 |
| 72.5°  | 387.6  | 528.8  | 724.0  | 888.3  | 955.0  |
| 75°    | 310.3  | 461.1  | 659.3  | 827.4  | 890.3  |
| 77.5°  | 241.7  | 395.4  | 601.3  | 770.4  | 833.2  |
| 80°    | 175.0  | 335.4  | 543.3  | 713.4  | 774.3  |
| 82.5°  | 118.9  | 280.3  | 492.0  | 661.2  | 721.1  |
| 85°    | 68.6   | 231.0  | 444.7  | 609.0  | 668.0  |
| 87.5°  | 26.1   | 192.4  | 402.1  | 563.6  | 617.7  |
| 90°    | 1.0    | 163.4  | 365.4  | 521.0  | 576.1  |
| 92.5°  | 1.0    | 143.1  | 337.4  | 482.4  | 533.6  |
| 95°    | 1.0    | 129.5  | 311.3  | 448.5  | 498.8  |
| 97.5°  | 1.9    | 118.9  | 288.1  | 418.6  | 463.0  |
| 100°   | 1.9    | 108.3  | 268.7  | 389.6  | 432.1  |
| 102.5° | 1.9    | 97.6   | 251.3  | 363.5  | 403.1  |
| 105°   | 1.9    | 83.1   | 235.9  | 339.3  | 378.0  |
| 107.5° | 1.9    | 64.8   | 218.5  | 319.0  | 352.8  |
| 110°   | 1.9    | 47.4   | 200.1  | 298.7  | 331.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 1.9 | 29.0  | 183.7 | 278.4 | 310.3 |
| 115°   | 1.9 | 10.6  | 163.4 | 256.2 | 288.1 |
| 117.5° | 1.9 | 3.9   | 139.2 | 234.9 | 262.9 |
| 120°   | 1.9 | 2.9   | 116.0 | 211.7 | 239.7 |
| 122.5° | 1.9 | 2.9   | 91.8  | 186.6 | 216.5 |
| 125°   | 1.9 | 2.9   | 68.6  | 159.5 | 191.4 |
| 127.5° | 1.9 | 1.9   | 44.5  | 131.5 | 160.5 |
| 130°   | 1.9 | 1.9   | 21.3  | 104.4 | 132.4 |
| 132.5° | 1.9 | 1.9   | 1.0   | 76.4  | 103.4 |
| 135°   | 1.9 | 1.0   | 1.0   | 50.3  | 74.4  |
| 137.5° | 1.9 | 1.0   | 0.0   | 24.2  | 48.3  |
| 140°   | 1.9 | 1.0   | 0.0   | 0.0   | 19.3  |
| 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)