

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: P290360

Luminaire Tested: **4SSRK-SLN-30-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290360  
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: 4SSRK-SLN-30-L830-CD1-U  
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3108.4 lumens  
Efficiency: N/A  
Efficacy: 152.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

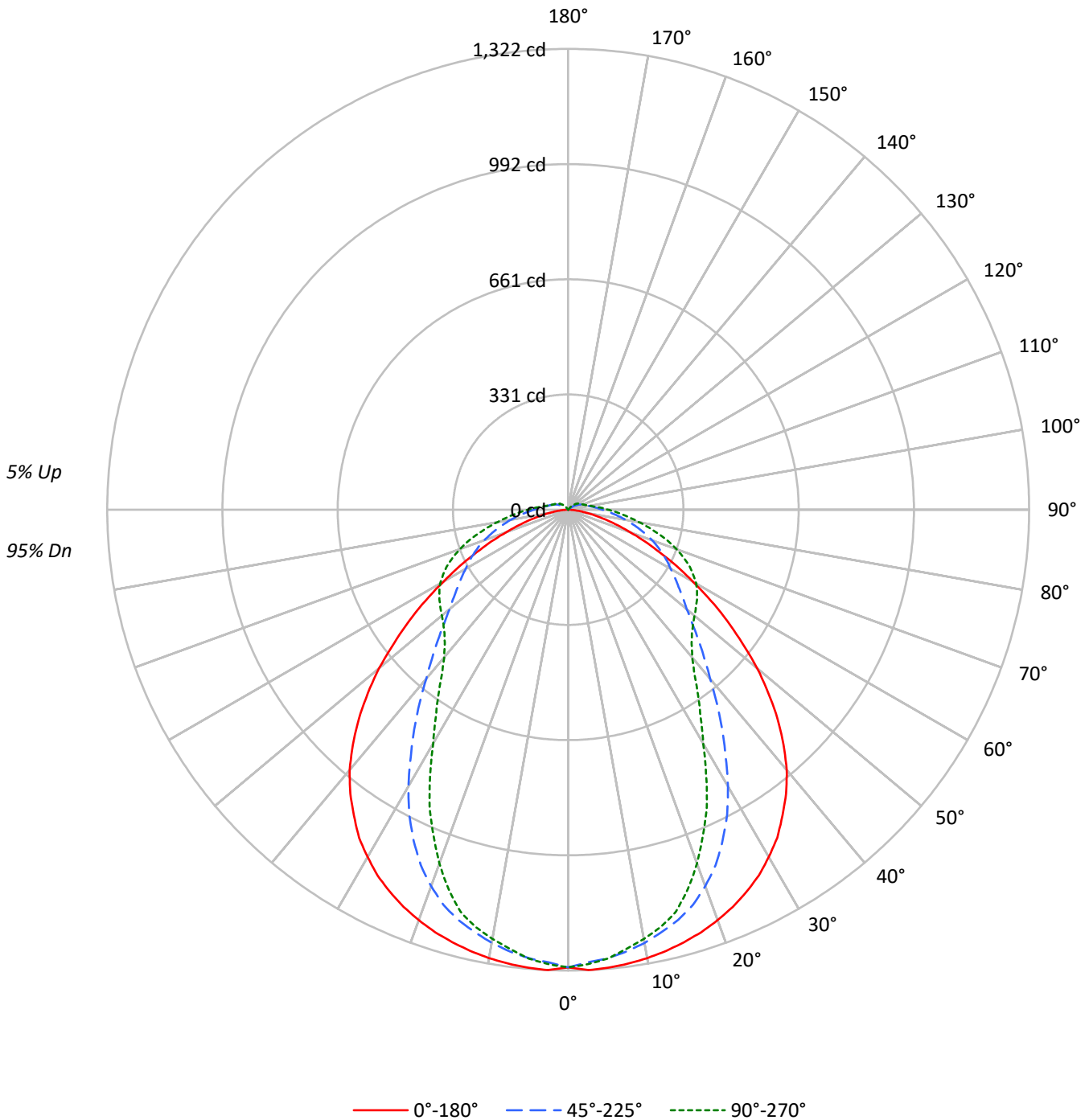
Input Watts (W): 20.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 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°  | 84791 | 84791 | 84791 |
| 5°  | 85180 | 66991 | 62085 |
| 10° | 85028 | 55026 | 48074 |
| 15° | 84915 | 46124 | 38533 |
| 20° | 84823 | 38713 | 30221 |
| 25° | 84546 | 32012 | 23391 |
| 30° | 83760 | 25791 | 17455 |
| 35° | 82061 | 20226 | 13460 |
| 40° | 79423 | 15725 | 10710 |
| 45° | 74467 | 12488 | 9165  |
| 50° | 67789 | 10123 | 8241  |
| 55° | 59194 | 8562  | 7565  |
| 60° | 49755 | 7374  | 6909  |
| 65° | 40555 | 6405  | 6125  |
| 70° | 32124 | 5455  | 5197  |
| 75° | 24273 | 4500  | 4197  |
| 80° | 16967 | 3609  | 3243  |
| 85° | 9939  | 2822  | 2466  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 123.3  | 4.0       |
| 10°-20°   | 345.6  | 11.1      |
| 20°-30°   | 486.0  | 15.6      |
| 30°-40°   | 508.9  | 16.4      |
| 40°-50°   | 460.7  | 14.8      |
| 50°-60°   | 392.1  | 12.6      |
| 60°-70°   | 310.1  | 10.0      |
| 70°-80°   | 211.1  | 6.8       |
| 80°-90°   | 120.5  | 3.9       |
| 90°-100°  | 66.8   | 2.1       |
| 100°-110° | 40.8   | 1.3       |
| 110°-120° | 24.8   | 0.8       |
| 120°-130° | 13.4   | 0.4       |
| 130°-140° | 4.1    | 0.1       |
| 140°-150° | 0.1    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 954.8  | 30.7      |
| 0°-40°    | 1463.8 | 47.1      |
| 0°-60°    | 2316.6 | 74.5      |
| 0°-90°    | 2958.3 | 95.2      |
| 90°-120°  | 132.4  | 4.3       |
| 90°-150°  | 150.0  | 4.8       |
| 90°-180°  | 150.0  | 4.8       |
| 0°-180°   | 3108.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1313 | 1313  | 1313 | 1313  | 1313 |      |
| 5°   | 1319 | 1310  | 1292 | 1298  | 1293 | 125  |
| 15°  | 1284 | 1260  | 1218 | 1206  | 1194 | 363  |
| 25°  | 1210 | 1150  | 1048 | 967   | 940  | 557  |
| 35°  | 1071 | 951   | 770  | 674   | 649  | 669  |
| 45°  | 849  | 674   | 528  | 500   | 502  | 652  |
| 55°  | 557  | 425   | 386  | 431   | 451  | 498  |
| 65°  | 289  | 251   | 299  | 365   | 384  | 291  |
| 75°  | 112  | 137   | 210  | 259   | 268  | 123  |
| 85°  | 20   | 65    | 128  | 153   | 156  | 24   |
| 90°  | 0    | 45    | 98   | 114   | 114  | 1    |
| 95°  | 1    | 35    | 77   | 86    | 85   | 1    |
| 105° | 1    | 21    | 52   | 54    | 52   | 1    |
| 115° | 1    | 3     | 35   | 41    | 40   | 1    |
| 125° | 0    | 1     | 16   | 28    | 30   | 0    |
| 135° | 1    | 1     | 1    | 12    | 15   | 0    |
| 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°     | 1312.9 | 1312.9 | 1312.9 | 1312.9 | 1312.9 |
| 2.5°   | 1321.9 | 1314.7 | 1299.6 | 1309.3 | 1305.0 |
| 5°     | 1318.7 | 1310.4 | 1291.7 | 1297.5 | 1292.8 |
| 7.5°   | 1313.6 | 1302.5 | 1278.4 | 1280.2 | 1271.3 |
| 10°    | 1306.1 | 1291.7 | 1261.9 | 1258.7 | 1250.1 |
| 12.5°  | 1296.4 | 1276.6 | 1240.7 | 1236.4 | 1226.4 |
| 15°    | 1284.2 | 1259.8 | 1218.1 | 1205.5 | 1194.0 |
| 17.5°  | 1270.5 | 1239.7 | 1189.0 | 1161.0 | 1141.3 |
| 20°    | 1252.9 | 1213.8 | 1149.2 | 1108.6 | 1079.9 |
| 22.5°  | 1233.2 | 1185.8 | 1104.3 | 1043.2 | 1010.5 |
| 25°    | 1209.5 | 1149.5 | 1047.9 | 966.7  | 940.5  |
| 27.5°  | 1183.3 | 1111.8 | 986.5  | 891.7  | 856.8  |
| 30°    | 1150.2 | 1064.1 | 916.5  | 814.8  | 774.6  |
| 32.5°  | 1115.8 | 1012.7 | 840.3  | 738.0  | 706.7  |
| 35°    | 1071.2 | 950.6  | 769.9  | 673.7  | 648.9  |
| 37.5°  | 1026.3 | 884.1  | 699.9  | 616.2  | 594.3  |
| 40°    | 975.0  | 817.0  | 633.8  | 568.8  | 553.4  |
| 42.5°  | 913.9  | 748.8  | 577.8  | 529.0  | 523.6  |
| 45°    | 849.3  | 674.4  | 527.5  | 499.9  | 501.7  |
| 47.5°  | 778.9  | 606.9  | 481.9  | 476.5  | 485.5  |
| 50°    | 708.2  | 544.1  | 443.9  | 458.9  | 473.0  |
| 52.5°  | 629.5  | 483.4  | 413.7  | 444.6  | 461.5  |
| 55°    | 557.0  | 425.2  | 386.4  | 430.9  | 451.0  |
| 57.5°  | 484.8  | 375.6  | 362.7  | 416.9  | 438.1  |
| 60°    | 413.0  | 330.4  | 339.7  | 401.8  | 424.1  |
| 62.5°  | 350.5  | 287.3  | 319.6  | 385.0  | 404.4  |
| 65°    | 289.1  | 251.0  | 298.8  | 364.9  | 383.9  |
| 67.5°  | 238.1  | 218.7  | 278.0  | 340.8  | 358.0  |
| 70°    | 189.6  | 188.2  | 255.7  | 314.2  | 330.0  |
| 72.5°  | 148.0  | 160.5  | 232.3  | 286.6  | 301.7  |
| 75°    | 112.4  | 136.8  | 210.4  | 258.6  | 267.9  |
| 77.5°  | 82.2   | 114.6  | 188.2  | 230.2  | 236.7  |
| 80°    | 56.4   | 95.2   | 167.0  | 201.8  | 206.5  |
| 82.5°  | 35.6   | 78.6   | 146.5  | 176.3  | 179.6  |
| 85°    | 19.8   | 65.0   | 128.2  | 153.3  | 155.5  |
| 87.5°  | 7.5    | 53.5   | 111.7  | 133.2  | 135.0  |
| 90°    | 0.4    | 45.2   | 98.0   | 114.2  | 114.2  |
| 92.5°  | 0.4    | 39.5   | 86.9   | 99.1   | 99.8   |
| 95°    | 0.7    | 34.8   | 77.2   | 85.5   | 84.8   |
| 97.5°  | 0.7    | 31.6   | 68.2   | 75.1   | 72.9   |
| 100°   | 0.7    | 28.7   | 61.4   | 66.1   | 63.9   |
| 102.5° | 0.7    | 25.5   | 56.0   | 58.9   | 56.4   |
| 105°   | 0.7    | 21.2   | 51.7   | 53.9   | 51.7   |
| 107.5° | 0.7    | 16.9   | 47.0   | 49.9   | 47.8   |
| 110°   | 0.7    | 12.6   | 42.7   | 46.3   | 44.5   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.4 | 7.9   | 38.8 | 43.1  | 42.0 |
| 115°   | 0.7 | 2.9   | 34.8 | 40.6  | 39.5 |
| 117.5° | 0.4 | 1.4   | 29.8 | 37.7  | 37.3 |
| 120°   | 0.4 | 1.1   | 25.1 | 35.2  | 35.2 |
| 122.5° | 0.4 | 1.1   | 20.8 | 31.6  | 33.0 |
| 125°   | 0.4 | 0.7   | 15.8 | 28.0  | 29.8 |
| 127.5° | 0.4 | 0.7   | 11.1 | 24.4  | 26.6 |
| 130°   | 0.4 | 0.7   | 5.7  | 20.1  | 23.0 |
| 132.5° | 0.4 | 0.7   | 0.7  | 15.8  | 19.0 |
| 135°   | 0.7 | 0.7   | 0.7  | 11.5  | 15.1 |
| 137.5° | 0.7 | 0.7   | 0.7  | 6.1   | 10.8 |
| 140°   | 0.7 | 0.7   | 0.4  | 0.4   | 5.0  |
| 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)