

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: P289643

Luminaire Tested: **8SSRK-TB-12-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-TB-12-L940-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9414.6 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

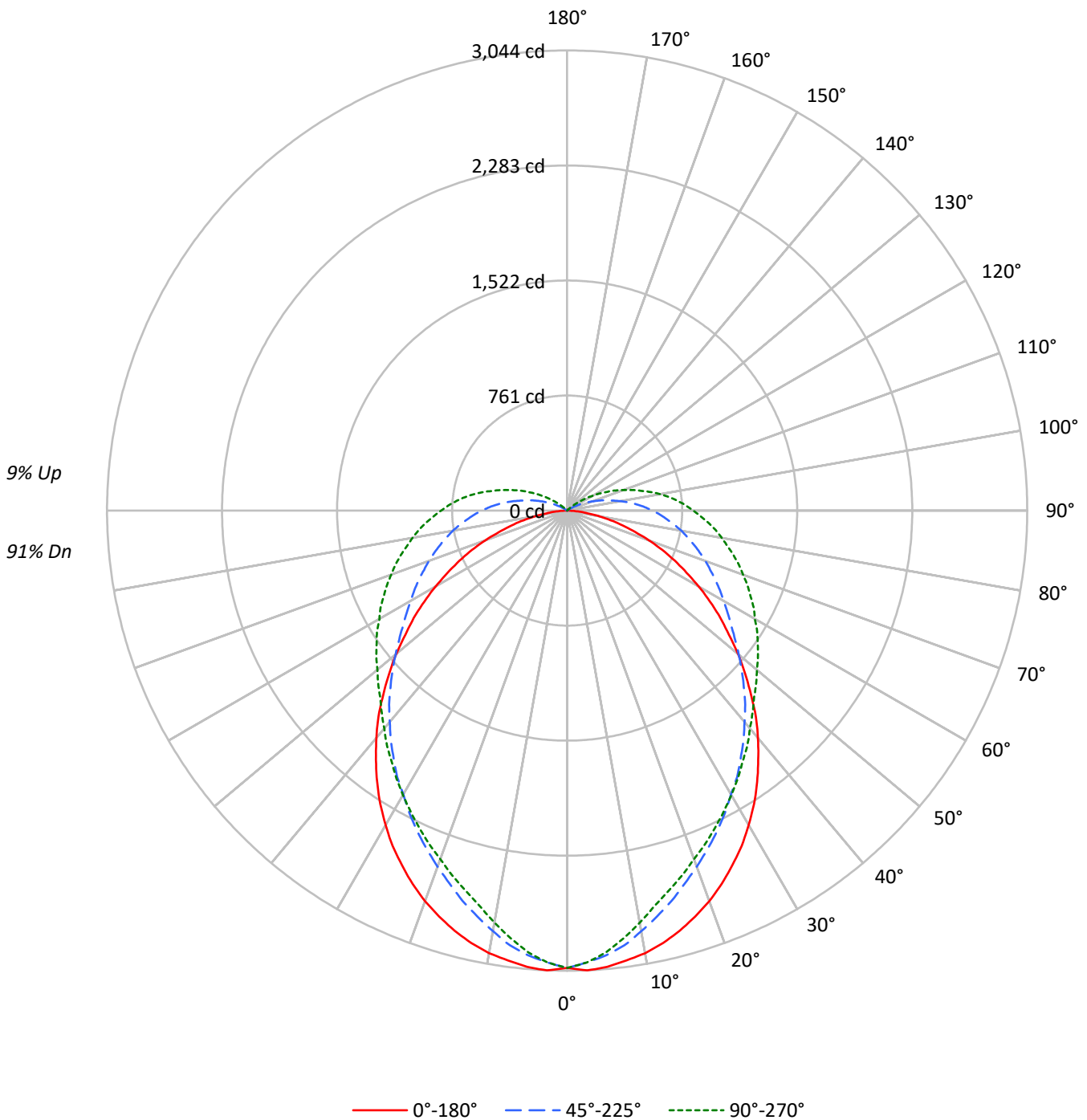
Input Watts (W): 80.8951  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 91 |
| 1   | 104 | 98  | 93  | 89  | 100 | 95  | 90  | 86  | 89  | 85  | 82  | 84 | 80 | 78 | 78 | 76 | 74 | 71 |
| 2   | 94  | 85  | 77  | 71  | 90  | 82  | 75  | 69  | 77  | 71  | 66  | 72 | 67 | 63 | 68 | 64 | 60 | 58 |
| 3   | 85  | 74  | 65  | 58  | 82  | 72  | 64  | 57  | 67  | 60  | 55  | 63 | 58 | 53 | 60 | 55 | 51 | 48 |
| 4   | 78  | 65  | 56  | 49  | 75  | 63  | 55  | 48  | 60  | 52  | 47  | 56 | 50 | 45 | 53 | 48 | 43 | 41 |
| 5   | 72  | 58  | 49  | 42  | 69  | 57  | 48  | 41  | 53  | 46  | 40  | 50 | 44 | 39 | 48 | 42 | 38 | 35 |
| 6   | 66  | 53  | 43  | 37  | 64  | 51  | 42  | 36  | 48  | 41  | 35  | 46 | 39 | 34 | 43 | 38 | 33 | 31 |
| 7   | 61  | 48  | 39  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 31  | 42 | 35 | 30 | 40 | 34 | 29 | 27 |
| 8   | 57  | 44  | 35  | 29  | 55  | 42  | 34  | 29  | 40  | 33  | 28  | 38 | 32 | 27 | 36 | 31 | 26 | 24 |
| 9   | 54  | 40  | 32  | 26  | 52  | 39  | 31  | 26  | 37  | 30  | 25  | 35 | 29 | 24 | 34 | 28 | 24 | 22 |
| 10  | 50  | 37  | 29  | 24  | 48  | 36  | 28  | 23  | 34  | 28  | 23  | 33 | 27 | 22 | 31 | 26 | 22 | 20 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 97691 | 97691 | 97691 |
| 5°  | 98041 | 76675 | 70470 |
| 10° | 97124 | 61704 | 53223 |
| 15° | 95666 | 50715 | 41975 |
| 20° | 93755 | 42321 | 34332 |
| 25° | 91287 | 35909 | 28793 |
| 30° | 88469 | 30599 | 24478 |
| 35° | 85148 | 26375 | 21000 |
| 40° | 81322 | 22719 | 18210 |
| 45° | 76940 | 19645 | 15970 |
| 50° | 72397 | 16962 | 14277 |
| 55° | 67722 | 14735 | 12906 |
| 60° | 62664 | 13035 | 11681 |
| 65° | 57496 | 11643 | 10679 |
| 70° | 51483 | 10414 | 9754  |
| 75° | 44118 | 9318  | 8919  |
| 80° | 35657 | 8329  | 8154  |
| 85° | 24239 | 7324  | 7443  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 280.1  | 3.0       |
| 10°-20°   | 763.4  | 8.1       |
| 20°-30°   | 1104.5 | 11.7      |
| 30°-40°   | 1284.8 | 13.6      |
| 40°-50°   | 1307.7 | 13.9      |
| 50°-60°   | 1216.9 | 12.9      |
| 60°-70°   | 1059.6 | 11.3      |
| 70°-80°   | 862.5  | 9.2       |
| 80°-90°   | 653.4  | 6.9       |
| 90°-100°  | 453.1  | 4.8       |
| 100°-110° | 266.3  | 2.8       |
| 110°-120° | 124.9  | 1.3       |
| 120°-130° | 35.5   | 0.4       |
| 130°-140° | 2.0    | 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°    | 2147.9 | 22.8      |
| 0°-40°    | 3432.7 | 36.5      |
| 0°-60°    | 5957.3 | 63.3      |
| 0°-90°    | 8532.8 | 90.6      |
| 90°-120°  | 844.3  | 9.0       |
| 90°-150°  | 881.8  | 9.4       |
| 90°-180°  | 882.0  | 9.4       |
| 0°-180°   | 9414.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3025 | 3025  | 3025 | 3025  | 3025 |      |
| 5°   | 3030 | 3006  | 2954 | 2954  | 2935 | 287  |
| 15°  | 2878 | 2801  | 2673 | 2625  | 2601 | 811  |
| 25°  | 2587 | 2473  | 2344 | 2325  | 2315 | 1191 |
| 35°  | 2192 | 2077  | 2001 | 2020  | 2025 | 1369 |
| 45°  | 1720 | 1653  | 1653 | 1720  | 1748 | 1328 |
| 55°  | 1239 | 1234  | 1324 | 1482  | 1539 | 1106 |
| 65°  | 786  | 853   | 1082 | 1272  | 1339 | 779  |
| 75°  | 381  | 557   | 867  | 1067  | 1139 | 407  |
| 85°  | 81   | 348   | 662  | 872   | 939  | 93   |
| 90°  | 0    | 252   | 562  | 767   | 834  | 5    |
| 95°  | 0    | 162   | 462  | 667   | 734  | 0    |
| 105° | 0    | 38    | 262  | 443   | 505  | 0    |
| 115° | 0    | 0     | 105  | 243   | 295  | 0    |
| 125° | 0    | 0     | 5    | 81    | 119  | 0    |
| 135° | 0    | 0     | 0    | 0     | 0    | 0    |
| 145° | 0    | 0     | 0    | 0     | 0    | 0    |
| 155° | 0    | 0     | 0    | 0     | 0    | 0    |
| 165° | 0    | 0     | 0    | 0     | 0    | 0    |
| 175° | 5    | 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°     | 3025.3 | 3025.3 | 3025.3 | 3025.3 | 3025.3 |
| 2.5°   | 3044.3 | 3030.1 | 2991.9 | 3006.2 | 2991.9 |
| 5°     | 3030.1 | 3006.2 | 2953.8 | 2953.8 | 2934.8 |
| 7.5°   | 3001.5 | 2972.9 | 2901.4 | 2877.6 | 2853.8 |
| 10°    | 2972.9 | 2930.0 | 2825.2 | 2796.6 | 2768.0 |
| 12.5°  | 2930.0 | 2868.1 | 2749.0 | 2706.1 | 2677.5 |
| 15°    | 2877.6 | 2801.4 | 2672.7 | 2625.1 | 2601.3 |
| 17.5°  | 2815.7 | 2729.9 | 2587.0 | 2548.9 | 2529.8 |
| 20°    | 2749.0 | 2648.9 | 2506.0 | 2472.6 | 2453.6 |
| 22.5°  | 2672.7 | 2558.4 | 2425.0 | 2401.2 | 2386.9 |
| 25°    | 2587.0 | 2472.6 | 2344.0 | 2324.9 | 2315.4 |
| 27.5°  | 2501.2 | 2377.4 | 2258.2 | 2248.7 | 2244.0 |
| 30°    | 2401.2 | 2282.1 | 2167.7 | 2172.5 | 2172.5 |
| 32.5°  | 2301.1 | 2182.0 | 2091.5 | 2101.0 | 2101.0 |
| 35°    | 2191.5 | 2077.2 | 2001.0 | 2020.0 | 2024.8 |
| 37.5°  | 2077.2 | 1977.2 | 1915.2 | 1943.8 | 1958.1 |
| 40°    | 1962.9 | 1872.3 | 1824.7 | 1867.6 | 1881.9 |
| 42.5°  | 1848.5 | 1762.8 | 1743.7 | 1796.1 | 1815.2 |
| 45°    | 1719.9 | 1653.2 | 1653.2 | 1719.9 | 1748.5 |
| 47.5°  | 1596.0 | 1553.1 | 1567.4 | 1653.2 | 1696.1 |
| 50°    | 1476.9 | 1443.6 | 1481.7 | 1591.3 | 1638.9 |
| 52.5°  | 1348.3 | 1338.7 | 1400.7 | 1534.1 | 1591.3 |
| 55°    | 1238.7 | 1233.9 | 1324.5 | 1481.7 | 1538.8 |
| 57.5°  | 1119.6 | 1133.9 | 1257.8 | 1429.3 | 1491.2 |
| 60°    | 1005.3 | 1033.8 | 1195.8 | 1376.9 | 1434.0 |
| 62.5°  | 890.9  | 948.1  | 1138.7 | 1324.5 | 1391.2 |
| 65°    | 786.1  | 852.8  | 1081.5 | 1272.0 | 1338.7 |
| 67.5°  | 681.3  | 767.0  | 1024.3 | 1224.4 | 1291.1 |
| 70°    | 576.5  | 690.8  | 971.9  | 1172.0 | 1238.7 |
| 72.5°  | 471.7  | 624.1  | 919.5  | 1119.6 | 1191.1 |
| 75°    | 381.1  | 557.4  | 867.1  | 1067.2 | 1138.7 |
| 77.5°  | 295.4  | 505.0  | 814.7  | 1024.3 | 1086.2 |
| 80°    | 214.4  | 447.8  | 767.0  | 971.9  | 1038.6 |
| 82.5°  | 138.2  | 400.2  | 714.6  | 919.5  | 991.0  |
| 85°    | 81.0   | 347.8  | 662.2  | 871.9  | 938.6  |
| 87.5°  | 33.3   | 295.4  | 614.6  | 819.4  | 886.1  |
| 90°    | 0.0    | 252.5  | 562.2  | 767.0  | 833.7  |
| 92.5°  | 0.0    | 209.6  | 514.5  | 719.4  | 786.1  |
| 95°    | 0.0    | 162.0  | 462.1  | 667.0  | 733.7  |
| 97.5°  | 0.0    | 123.9  | 409.7  | 614.6  | 681.3  |
| 100°   | 0.0    | 95.3   | 357.3  | 552.7  | 624.1  |
| 102.5° | 0.0    | 66.7   | 304.9  | 495.5  | 566.9  |
| 105°   | 0.0    | 38.1   | 262.0  | 443.1  | 505.0  |
| 107.5° | 0.0    | 19.1   | 219.2  | 390.7  | 452.6  |
| 110°   | 0.0    | 4.8    | 176.3  | 338.3  | 395.4  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 0.0   | 138.2 | 290.6 | 347.8 |
| 115°   | 0.0 | 0.0   | 104.8 | 243.0 | 295.4 |
| 117.5° | 0.0 | 0.0   | 71.5  | 200.1 | 247.7 |
| 120°   | 0.0 | 0.0   | 42.9  | 157.2 | 200.1 |
| 122.5° | 0.0 | 0.0   | 19.1  | 119.1 | 157.2 |
| 125°   | 0.0 | 0.0   | 4.8   | 81.0  | 119.1 |
| 127.5° | 0.0 | 0.0   | 0.0   | 47.6  | 81.0  |
| 130°   | 0.0 | 0.0   | 0.0   | 23.8  | 47.6  |
| 132.5° | 0.0 | 0.0   | 0.0   | 4.8   | 19.1  |
| 135°   | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 137.5° | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 140°   | 0.0 | 0.0   | 0.0   | 0.0   | 0.0   |
| 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°   | 4.8 | 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)