

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: P402676

Luminaire Tested: **4SLSTP4040CS**

Issue Date: 06/24/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402676  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 06/24/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SLSTP4040CS  
Description: 4FT LENSED LED STRIPLIGHT  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2004-752-4)  
Light Source: (80) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRICAL DRIVER

**Summary**

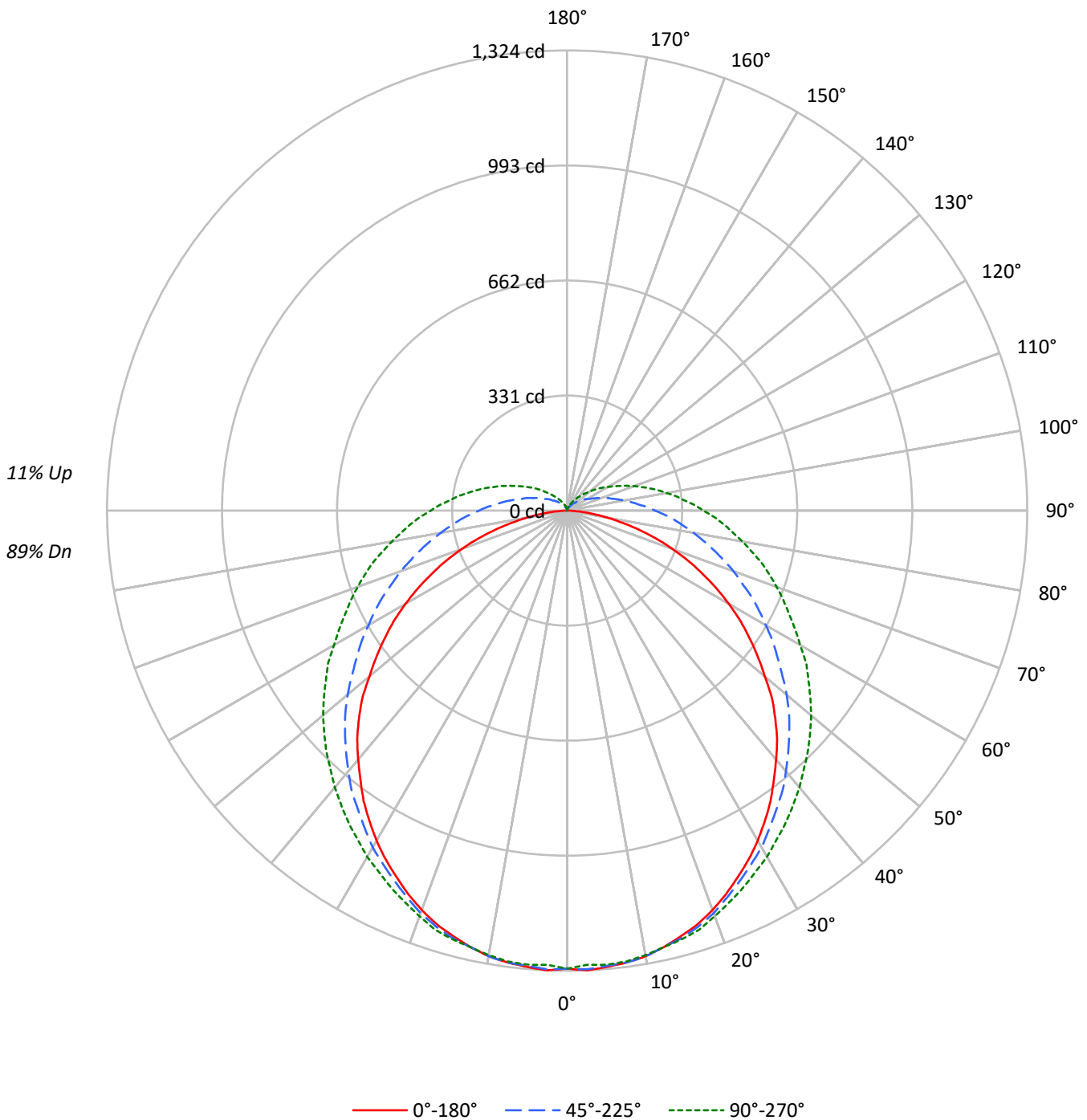
Lumens per Lamp: N/A  
Luminaire Lumens: 4896.4 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 40.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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 | 105 | 105 | 105 | 98 | 98 | 98 | 92 | 92 | 92 | 89 |
| 1   | 104 | 98  | 93  | 89  | 100 | 95  | 90  | 86  | 89  | 85  | 81  | 83 | 80 | 77 | 78 | 75 | 73 | 70 |
| 2   | 94  | 85  | 77  | 70  | 90  | 82  | 75  | 69  | 76  | 71  | 66  | 71 | 67 | 62 | 67 | 63 | 59 | 57 |
| 3   | 85  | 74  | 65  | 58  | 82  | 71  | 63  | 56  | 67  | 60  | 54  | 62 | 57 | 52 | 58 | 54 | 50 | 47 |
| 4   | 78  | 65  | 56  | 48  | 74  | 63  | 54  | 47  | 59  | 51  | 46  | 55 | 49 | 44 | 52 | 47 | 42 | 40 |
| 5   | 71  | 58  | 48  | 41  | 68  | 56  | 47  | 41  | 53  | 45  | 39  | 49 | 43 | 38 | 47 | 41 | 36 | 34 |
| 6   | 66  | 52  | 43  | 36  | 63  | 50  | 42  | 35  | 47  | 40  | 34  | 45 | 38 | 33 | 42 | 36 | 32 | 29 |
| 7   | 61  | 47  | 38  | 31  | 58  | 46  | 37  | 31  | 43  | 35  | 30  | 41 | 34 | 29 | 38 | 33 | 28 | 26 |
| 8   | 56  | 43  | 34  | 28  | 54  | 41  | 33  | 28  | 39  | 32  | 27  | 37 | 31 | 26 | 35 | 29 | 25 | 23 |
| 9   | 53  | 39  | 31  | 25  | 51  | 38  | 30  | 25  | 36  | 29  | 24  | 34 | 28 | 23 | 33 | 27 | 23 | 21 |
| 10  | 49  | 36  | 28  | 23  | 48  | 35  | 27  | 22  | 33  | 26  | 22  | 32 | 26 | 21 | 30 | 25 | 21 | 19 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 21277 | 21277 | 21277 |
| 5°  | 21319 | 20641 | 20365 |
| 10° | 21268 | 20045 | 19568 |
| 15° | 21064 | 19375 | 18819 |
| 20° | 20855 | 18674 | 18053 |
| 25° | 20518 | 17874 | 17303 |
| 30° | 20202 | 17200 | 16642 |
| 35° | 19829 | 16441 | 16010 |
| 40° | 19377 | 15773 | 15437 |
| 45° | 18943 | 15082 | 14912 |
| 50° | 18201 | 14398 | 14424 |
| 55° | 17536 | 13642 | 13908 |
| 60° | 16743 | 13022 | 13398 |
| 65° | 15718 | 12479 | 12992 |
| 70° | 14391 | 11939 | 12758 |
| 75° | 12439 | 11457 | 12587 |
| 80° | 9721  | 11129 | 12409 |
| 85° | 5671  | 11013 | 12467 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.0  | 2.6       |
| 10°-20°   | 358.9  | 7.3       |
| 20°-30°   | 543.1  | 11.1      |
| 30°-40°   | 659.6  | 13.5      |
| 40°-50°   | 701.1  | 14.3      |
| 50°-60°   | 664.8  | 13.6      |
| 60°-70°   | 570.6  | 11.7      |
| 70°-80°   | 442.2  | 9.0       |
| 80°-90°   | 309.6  | 6.3       |
| 90°-100°  | 208.1  | 4.3       |
| 100°-110° | 135.7  | 2.8       |
| 110°-120° | 83.8   | 1.7       |
| 120°-130° | 48.8   | 1.0       |
| 130°-140° | 26.0   | 0.5       |
| 140°-150° | 12.6   | 0.3       |
| 150°-160° | 4.9    | 0.1       |
| 160°-170° | 1.5    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-30°    | 1027.0 | 21.0      |
| 0°-40°    | 1686.6 | 34.4      |
| 0°-60°    | 3052.5 | 62.3      |
| 0°-90°    | 4374.9 | 89.4      |
| 90°-120°  | 427.6  | 8.7       |
| 90°-150°  | 514.9  | 10.5      |
| 90°-180°  | 521.0  | 10.6      |
| 0°-180°   | 4896.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1318 | 1318  | 1318 | 1318  | 1318 |      |
| 5°   | 1318 | 1318  | 1315 | 1308  | 1312 | 125  |
| 15°  | 1267 | 1270  | 1274 | 1270  | 1277 | 358  |
| 25°  | 1163 | 1166  | 1176 | 1188  | 1198 | 536  |
| 35°  | 1021 | 1024  | 1049 | 1081  | 1097 | 637  |
| 45°  | 847  | 860   | 904  | 958   | 980  | 652  |
| 55°  | 642  | 667   | 740  | 822   | 847  | 573  |
| 65°  | 430  | 477   | 585  | 673   | 705  | 425  |
| 75°  | 215  | 300   | 436  | 537   | 578  | 229  |
| 85°  | 38   | 158   | 310  | 414   | 452  | 49   |
| 90°  | 3    | 111   | 253  | 357   | 392  | 3    |
| 95°  | 0    | 76    | 205  | 303   | 338  | 0    |
| 105° | 0    | 38    | 133  | 215   | 246  | 0    |
| 115° | 0    | 22    | 82   | 145   | 168  | 0    |
| 125° | 0    | 16    | 51   | 92    | 111  | 0    |
| 135° | 0    | 10    | 32   | 57    | 66   | 0    |
| 145° | 0    | 10    | 19   | 32    | 38   | 0    |
| 155° | 0    | 6     | 10   | 16    | 19   | 0    |
| 165° | 0    | 3     | 6    | 6     | 10   | 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°     | 1317.8 | 1317.8 | 1317.8 | 1317.8 | 1317.8 |
| 2.5°   | 1324.1 | 1324.1 | 1320.9 | 1311.5 | 1308.3 |
| 5°     | 1317.8 | 1317.8 | 1314.6 | 1308.3 | 1311.5 |
| 7.5°   | 1311.5 | 1311.5 | 1311.5 | 1305.1 | 1308.3 |
| 10°    | 1302.0 | 1302.0 | 1302.0 | 1292.5 | 1298.8 |
| 12.5°  | 1286.2 | 1289.3 | 1286.2 | 1283.0 | 1286.2 |
| 15°    | 1267.2 | 1270.4 | 1273.5 | 1270.4 | 1276.7 |
| 17.5°  | 1248.3 | 1248.3 | 1254.6 | 1257.7 | 1264.1 |
| 20°    | 1223.0 | 1226.1 | 1232.5 | 1235.6 | 1241.9 |
| 22.5°  | 1194.5 | 1194.5 | 1204.0 | 1210.3 | 1219.8 |
| 25°    | 1162.9 | 1166.1 | 1175.6 | 1188.2 | 1197.7 |
| 27.5°  | 1131.3 | 1134.5 | 1147.1 | 1162.9 | 1172.4 |
| 30°    | 1096.6 | 1099.7 | 1118.7 | 1137.6 | 1150.3 |
| 32.5°  | 1058.6 | 1061.8 | 1083.9 | 1109.2 | 1121.8 |
| 35°    | 1020.7 | 1023.9 | 1049.2 | 1080.8 | 1096.6 |
| 37.5°  | 976.5  | 986.0  | 1017.6 | 1052.3 | 1068.1 |
| 40°    | 935.4  | 944.9  | 979.6  | 1020.7 | 1039.7 |
| 42.5°  | 894.3  | 903.8  | 941.7  | 992.3  | 1008.1 |
| 45°    | 846.9  | 859.6  | 903.8  | 957.5  | 979.6  |
| 47.5°  | 799.5  | 815.3  | 865.9  | 922.8  | 948.0  |
| 50°    | 742.6  | 761.6  | 824.8  | 888.0  | 916.4  |
| 52.5°  | 692.1  | 714.2  | 780.6  | 856.4  | 881.7  |
| 55°    | 641.5  | 666.8  | 739.5  | 821.6  | 846.9  |
| 57.5°  | 590.9  | 619.4  | 701.5  | 780.6  | 815.3  |
| 60°    | 537.2  | 572.0  | 660.5  | 742.6  | 774.2  |
| 62.5°  | 483.5  | 524.6  | 622.5  | 707.9  | 739.5  |
| 65°    | 429.8  | 477.2  | 584.6  | 673.1  | 704.7  |
| 67.5°  | 376.1  | 432.9  | 543.5  | 638.3  | 673.1  |
| 70°    | 322.3  | 385.5  | 508.8  | 606.7  | 641.5  |
| 72.5°  | 268.6  | 341.3  | 470.9  | 572.0  | 609.9  |
| 75°    | 214.9  | 300.2  | 436.1  | 537.2  | 578.3  |
| 77.5°  | 164.3  | 259.1  | 401.3  | 505.6  | 543.5  |
| 80°    | 116.9  | 224.4  | 369.7  | 474.0  | 511.9  |
| 82.5°  | 75.8   | 189.6  | 338.1  | 442.4  | 480.3  |
| 85°    | 37.9   | 158.0  | 309.7  | 414.0  | 451.9  |
| 87.5°  | 12.6   | 132.7  | 281.3  | 385.5  | 423.5  |
| 90°    | 3.2    | 110.6  | 252.8  | 357.1  | 391.9  |
| 92.5°  | 0.0    | 91.6   | 230.7  | 331.8  | 366.6  |
| 95°    | 0.0    | 75.8   | 205.4  | 303.4  | 338.1  |
| 97.5°  | 0.0    | 63.2   | 186.4  | 281.3  | 316.0  |
| 100°   | 0.0    | 53.7   | 167.5  | 256.0  | 290.7  |
| 102.5° | 0.0    | 44.2   | 148.5  | 237.0  | 268.6  |
| 105°   | 0.0    | 37.9   | 132.7  | 214.9  | 246.5  |
| 107.5° | 0.0    | 31.6   | 120.1  | 195.9  | 224.4  |
| 110°   | 0.0    | 28.4   | 104.3  | 177.0  | 205.4  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°   |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 25.3  | 94.8 | 161.2 | 186.4 |
| 115°   | 0.0 | 22.1  | 82.2 | 145.4 | 167.5 |
| 117.5° | 0.0 | 19.0  | 72.7 | 129.6 | 151.7 |
| 120°   | 0.0 | 19.0  | 66.4 | 116.9 | 135.9 |
| 122.5° | 0.0 | 15.8  | 60.0 | 104.3 | 123.2 |
| 125°   | 0.0 | 15.8  | 50.6 | 91.6  | 110.6 |
| 127.5° | 0.0 | 12.6  | 47.4 | 82.2  | 98.0  |
| 130°   | 0.0 | 12.6  | 41.1 | 72.7  | 85.3  |
| 132.5° | 0.0 | 9.5   | 37.9 | 63.2  | 75.8  |
| 135°   | 0.0 | 9.5   | 31.6 | 56.9  | 66.4  |
| 137.5° | 0.0 | 9.5   | 28.4 | 50.6  | 56.9  |
| 140°   | 0.0 | 9.5   | 25.3 | 44.2  | 50.6  |
| 142.5° | 0.0 | 9.5   | 22.1 | 37.9  | 44.2  |
| 145°   | 0.0 | 9.5   | 19.0 | 31.6  | 37.9  |
| 147.5° | 0.0 | 6.3   | 15.8 | 28.4  | 31.6  |
| 150°   | 0.0 | 6.3   | 12.6 | 22.1  | 25.3  |
| 152.5° | 0.0 | 6.3   | 12.6 | 19.0  | 22.1  |
| 155°   | 0.0 | 6.3   | 9.5  | 15.8  | 19.0  |
| 157.5° | 0.0 | 6.3   | 9.5  | 12.6  | 15.8  |
| 160°   | 0.0 | 3.2   | 6.3  | 9.5   | 12.6  |
| 162.5° | 0.0 | 3.2   | 6.3  | 9.5   | 12.6  |
| 165°   | 0.0 | 3.2   | 6.3  | 6.3   | 9.5   |
| 167.5° | 0.0 | 3.2   | 6.3  | 6.3   | 6.3   |
| 170°   | 0.0 | 3.2   | 3.2  | 6.3   | 3.2   |
| 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)