

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: P406604

Luminaire Tested: **8SLSTP8050CS**

Issue Date: 08/11/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P406604  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 08/11/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SLSTP8050CS  
Description: 8FT LENSED LED STRIPLIGHT  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2004-752-4)  
Light Source: (160) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRICAL DRIVER

**Summary**

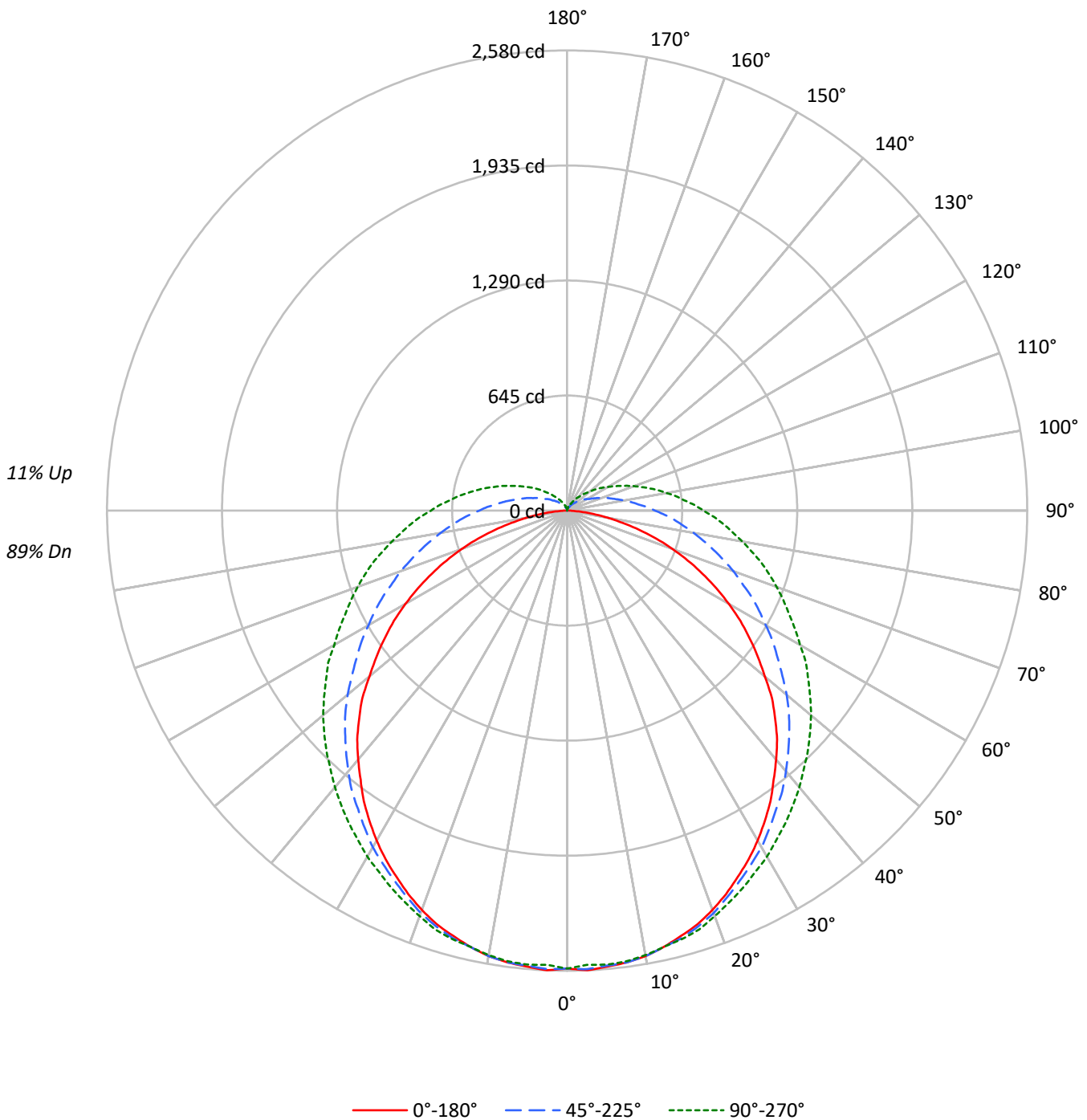
Lumens per Lamp: N/A  
Luminaire Lumens: 9539.5 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 72.2  
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  | 45  | 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 | 25 | 21 | 30 | 25 | 21 | 19 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 20726 | 20726 | 20726 |
| 5°  | 20787 | 20120 | 19838 |
| 10° | 20756 | 19550 | 19062 |
| 15° | 20577 | 18909 | 18332 |
| 20° | 20393 | 18233 | 17586 |
| 25° | 20084 | 17462 | 16855 |
| 30° | 19796 | 16813 | 16211 |
| 35° | 19456 | 16080 | 15595 |
| 40° | 19039 | 15438 | 15038 |
| 45° | 18644 | 14771 | 14527 |
| 50° | 17948 | 14112 | 14052 |
| 55° | 17333 | 13381 | 13549 |
| 60° | 16600 | 12785 | 13052 |
| 65° | 15645 | 12265 | 12656 |
| 70° | 14411 | 11747 | 12428 |
| 75° | 12571 | 11291 | 12262 |
| 80° | 10000 | 10991 | 12089 |
| 85° | 6117  | 10905 | 12144 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 243.6  | 2.6       |
| 10°-20°   | 699.2  | 7.3       |
| 20°-30°   | 1058.1 | 11.1      |
| 30°-40°   | 1285.1 | 13.5      |
| 40°-50°   | 1366.0 | 14.3      |
| 50°-60°   | 1295.2 | 13.6      |
| 60°-70°   | 1111.8 | 11.7      |
| 70°-80°   | 861.5  | 9.0       |
| 80°-90°   | 603.2  | 6.3       |
| 90°-100°  | 405.4  | 4.3       |
| 100°-110° | 264.5  | 2.8       |
| 110°-120° | 163.2  | 1.7       |
| 120°-130° | 95.0   | 1.0       |
| 130°-140° | 50.6   | 0.5       |
| 140°-150° | 24.5   | 0.3       |
| 150°-160° | 9.5    | 0.1       |
| 160°-170° | 3.0    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-30°    | 2000.8 | 21.0      |
| 0°-40°    | 3285.9 | 34.4      |
| 0°-60°    | 5947.1 | 62.3      |
| 0°-90°    | 8523.6 | 89.4      |
| 90°-120°  | 833.1  | 8.7       |
| 90°-150°  | 1003.2 | 10.5      |
| 90°-180°  | 1016.0 | 10.7      |
| 0°-180°   | 9539.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2567 | 2567  | 2567 | 2567  | 2567 |      |
| 5°   | 2567 | 2567  | 2561 | 2549  | 2555 | 244  |
| 15°  | 2469 | 2475  | 2481 | 2475  | 2487 | 697  |
| 25°  | 2266 | 2272  | 2290 | 2315  | 2333 | 1045 |
| 35°  | 1989 | 1995  | 2044 | 2106  | 2136 | 1242 |
| 45°  | 1650 | 1675  | 1761 | 1866  | 1909 | 1271 |
| 55°  | 1250 | 1299  | 1441 | 1601  | 1650 | 1117 |
| 65°  | 837  | 930   | 1139 | 1311  | 1373 | 829  |
| 75°  | 419  | 585   | 850  | 1047  | 1127 | 445  |
| 85°  | 74   | 308   | 603  | 806   | 880  | 95   |
| 90°  | 6    | 216   | 492  | 696   | 763  | 5    |
| 95°  | 0    | 148   | 400  | 591   | 659  | 0    |
| 105° | 0    | 74    | 259  | 419   | 480  | 0    |
| 115° | 0    | 43    | 160  | 283   | 326  | 0    |
| 125° | 0    | 31    | 98   | 178   | 216  | 0    |
| 135° | 0    | 18    | 62   | 111   | 129  | 0    |
| 145° | 0    | 18    | 37   | 62    | 74   | 0    |
| 155° | 0    | 12    | 18   | 31    | 37   | 0    |
| 165° | 0    | 6     | 12   | 12    | 18   | 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°     | 2567.4 | 2567.4 | 2567.4 | 2567.4 | 2567.4 |
| 2.5°   | 2579.7 | 2579.7 | 2573.5 | 2555.1 | 2548.9 |
| 5°     | 2567.4 | 2567.4 | 2561.2 | 2548.9 | 2555.1 |
| 7.5°   | 2555.1 | 2555.1 | 2555.1 | 2542.7 | 2548.9 |
| 10°    | 2536.6 | 2536.6 | 2536.6 | 2518.1 | 2530.4 |
| 12.5°  | 2505.8 | 2512.0 | 2505.8 | 2499.7 | 2505.8 |
| 15°    | 2468.9 | 2475.0 | 2481.2 | 2475.0 | 2487.3 |
| 17.5°  | 2431.9 | 2431.9 | 2444.2 | 2450.4 | 2462.7 |
| 20°    | 2382.7 | 2388.8 | 2401.1 | 2407.3 | 2419.6 |
| 22.5°  | 2327.3 | 2327.3 | 2345.7 | 2358.0 | 2376.5 |
| 25°    | 2265.7 | 2271.8 | 2290.3 | 2314.9 | 2333.4 |
| 27.5°  | 2204.1 | 2210.3 | 2234.9 | 2265.7 | 2284.2 |
| 30°    | 2136.4 | 2142.6 | 2179.5 | 2216.4 | 2241.1 |
| 32.5°  | 2062.5 | 2068.7 | 2111.8 | 2161.0 | 2185.7 |
| 35°    | 1988.6 | 1994.8 | 2044.0 | 2105.6 | 2136.4 |
| 37.5°  | 1902.4 | 1920.9 | 1982.5 | 2050.2 | 2081.0 |
| 40°    | 1822.4 | 1840.9 | 1908.6 | 1988.6 | 2025.6 |
| 42.5°  | 1742.4 | 1760.8 | 1834.7 | 1933.2 | 1964.0 |
| 45°    | 1650.0 | 1674.6 | 1760.8 | 1865.5 | 1908.6 |
| 47.5°  | 1557.7 | 1588.4 | 1687.0 | 1797.8 | 1847.0 |
| 50°    | 1446.8 | 1483.8 | 1606.9 | 1730.1 | 1785.5 |
| 52.5°  | 1348.3 | 1391.4 | 1520.7 | 1668.5 | 1717.7 |
| 55°    | 1249.8 | 1299.1 | 1440.7 | 1600.8 | 1650.0 |
| 57.5°  | 1151.3 | 1206.7 | 1366.8 | 1520.7 | 1588.4 |
| 60°    | 1046.7 | 1114.4 | 1286.8 | 1446.8 | 1508.4 |
| 62.5°  | 942.0  | 1022.0 | 1212.9 | 1379.1 | 1440.7 |
| 65°    | 837.3  | 929.7  | 1139.0 | 1311.4 | 1373.0 |
| 67.5°  | 732.7  | 843.5  | 1059.0 | 1243.7 | 1311.4 |
| 70°    | 628.0  | 751.1  | 991.2  | 1182.1 | 1249.8 |
| 72.5°  | 523.3  | 664.9  | 917.4  | 1114.4 | 1188.3 |
| 75°    | 418.7  | 584.9  | 849.6  | 1046.7 | 1126.7 |
| 77.5°  | 320.2  | 504.9  | 781.9  | 985.1  | 1059.0 |
| 80°    | 227.8  | 437.1  | 720.3  | 923.5  | 997.4  |
| 82.5°  | 147.8  | 369.4  | 658.8  | 861.9  | 935.8  |
| 85°    | 73.9   | 307.8  | 603.4  | 806.5  | 880.4  |
| 87.5°  | 24.6   | 258.6  | 548.0  | 751.1  | 825.0  |
| 90°    | 6.2    | 215.5  | 492.5  | 695.7  | 763.4  |
| 92.5°  | 0.0    | 178.5  | 449.4  | 646.5  | 714.2  |
| 95°    | 0.0    | 147.8  | 400.2  | 591.1  | 658.8  |
| 97.5°  | 0.0    | 123.1  | 363.2  | 548.0  | 615.7  |
| 100°   | 0.0    | 104.7  | 326.3  | 498.7  | 566.4  |
| 102.5° | 0.0    | 86.2   | 289.4  | 461.8  | 523.3  |
| 105°   | 0.0    | 73.9   | 258.6  | 418.7  | 480.2  |
| 107.5° | 0.0    | 61.6   | 234.0  | 381.7  | 437.1  |
| 110°   | 0.0    | 55.4   | 203.2  | 344.8  | 400.2  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 49.3  | 184.7 | 314.0 | 363.2 |
| 115°   | 0.0 | 43.1  | 160.1 | 283.2 | 326.3 |
| 117.5° | 0.0 | 36.9  | 141.6 | 252.4 | 295.5 |
| 120°   | 0.0 | 36.9  | 129.3 | 227.8 | 264.7 |
| 122.5° | 0.0 | 30.8  | 117.0 | 203.2 | 240.1 |
| 125°   | 0.0 | 30.8  | 98.5  | 178.5 | 215.5 |
| 127.5° | 0.0 | 24.6  | 92.4  | 160.1 | 190.9 |
| 130°   | 0.0 | 24.6  | 80.0  | 141.6 | 166.2 |
| 132.5° | 0.0 | 18.5  | 73.9  | 123.1 | 147.8 |
| 135°   | 0.0 | 18.5  | 61.6  | 110.8 | 129.3 |
| 137.5° | 0.0 | 18.5  | 55.4  | 98.5  | 110.8 |
| 140°   | 0.0 | 18.5  | 49.3  | 86.2  | 98.5  |
| 142.5° | 0.0 | 18.5  | 43.1  | 73.9  | 86.2  |
| 145°   | 0.0 | 18.5  | 36.9  | 61.6  | 73.9  |
| 147.5° | 0.0 | 12.3  | 30.8  | 55.4  | 61.6  |
| 150°   | 0.0 | 12.3  | 24.6  | 43.1  | 49.3  |
| 152.5° | 0.0 | 12.3  | 24.6  | 36.9  | 43.1  |
| 155°   | 0.0 | 12.3  | 18.5  | 30.8  | 36.9  |
| 157.5° | 0.0 | 12.3  | 18.5  | 24.6  | 30.8  |
| 160°   | 0.0 | 6.2   | 12.3  | 18.5  | 24.6  |
| 162.5° | 0.0 | 6.2   | 12.3  | 18.5  | 24.6  |
| 165°   | 0.0 | 6.2   | 12.3  | 12.3  | 18.5  |
| 167.5° | 0.0 | 6.2   | 12.3  | 12.3  | 12.3  |
| 170°   | 0.0 | 6.2   | 6.2   | 12.3  | 6.2   |
| 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)