

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: P406605

Luminaire Tested: **8SLSTP8040CS**

Issue Date: 08/06/2020

Test Information

Test Method: LM-79-08
Report Number: P406605
Test Lab: INNOVATION CENTER-P2
Issue Date: 08/06/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SLSTP8040CS
Description: 8FT LENSED LED STRIPLIGHT
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2004-752-4)
Light Source: (160) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRICAL DRIVER

Summary

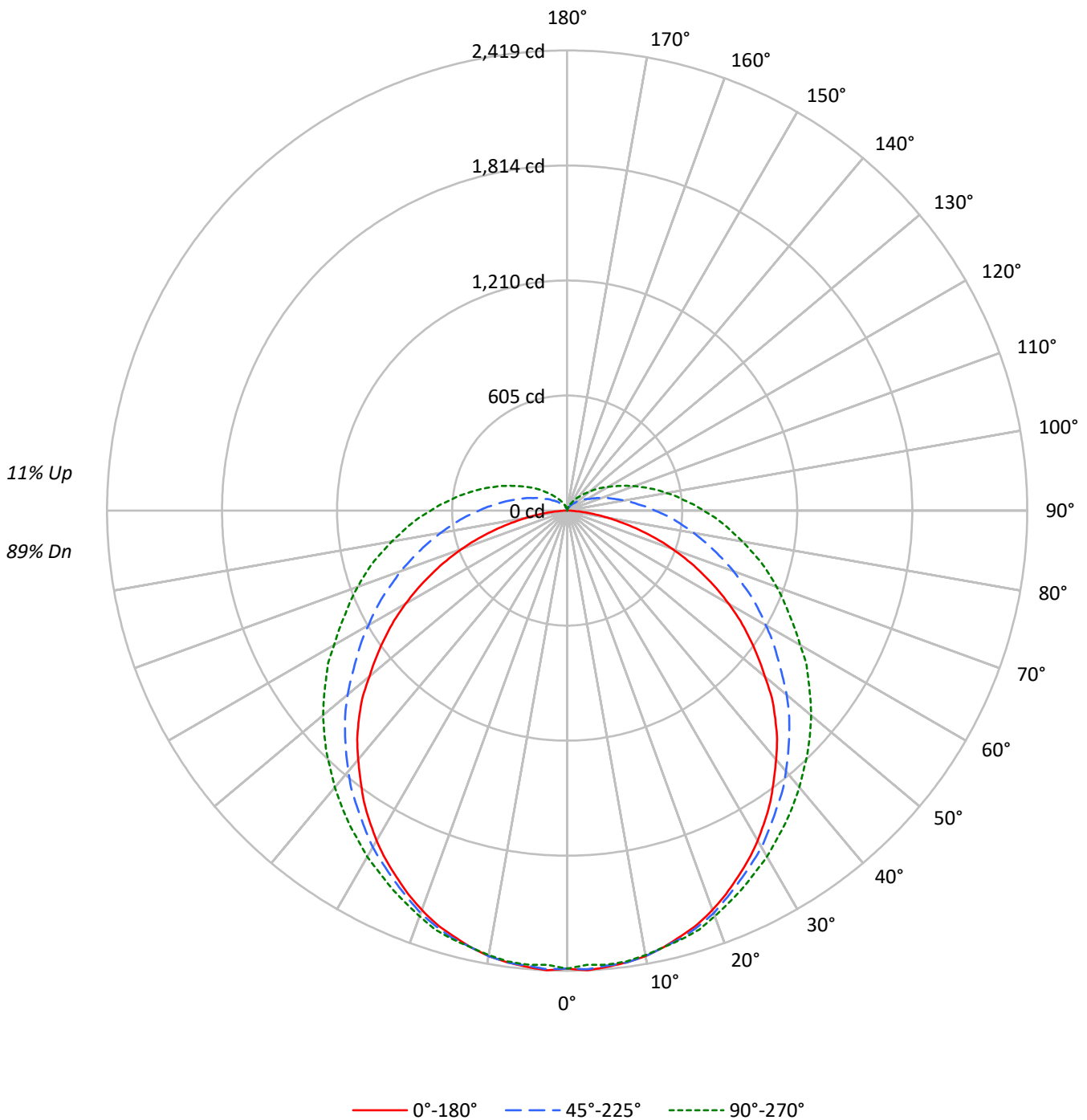
Lumens per Lamp: N/A
Luminaire Lumens: 8945.4 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 72.2
Input Voltage (V): 120
Input Current (A_{in}): 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 | 26 | 21 | 30 | 25 | 21 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 19436 | 19436 | 19436 |
| 5° | 19492 | 18867 | 18602 |
| 10° | 19463 | 18332 | 17875 |
| 15° | 19295 | 17731 | 17190 |
| 20° | 19122 | 17098 | 16491 |
| 25° | 18833 | 16375 | 15805 |
| 30° | 18564 | 15767 | 15202 |
| 35° | 18245 | 15080 | 14624 |
| 40° | 17853 | 14477 | 14101 |
| 45° | 17483 | 13852 | 13622 |
| 50° | 16830 | 13233 | 13176 |
| 55° | 16254 | 12547 | 12705 |
| 60° | 15566 | 11988 | 12239 |
| 65° | 14671 | 11501 | 11868 |
| 70° | 13513 | 11016 | 11654 |
| 75° | 11787 | 10588 | 11498 |
| 80° | 9376 | 10307 | 11336 |
| 85° | 5736 | 10225 | 11388 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 228.4 | 2.6 |
| 10°-20° | 655.6 | 7.3 |
| 20°-30° | 992.2 | 11.1 |
| 30°-40° | 1205.0 | 13.5 |
| 40°-50° | 1280.9 | 14.3 |
| 50°-60° | 1214.6 | 13.6 |
| 60°-70° | 1042.5 | 11.7 |
| 70°-80° | 807.8 | 9.0 |
| 80°-90° | 565.7 | 6.3 |
| 90°-100° | 380.2 | 4.3 |
| 100°-110° | 248.0 | 2.8 |
| 110°-120° | 153.0 | 1.7 |
| 120°-130° | 89.1 | 1.0 |
| 130°-140° | 47.5 | 0.5 |
| 140°-150° | 22.9 | 0.3 |
| 150°-160° | 8.9 | 0.1 |
| 160°-170° | 2.8 | 0.0 |
| 170°-180° | 0.1 | 0.0 |
| 0°-30° | 1876.2 | 21.0 |
| 0°-40° | 3081.3 | 34.4 |
| 0°-60° | 5576.8 | 62.3 |
| 0°-90° | 7992.8 | 89.4 |
| 90°-120° | 781.2 | 8.7 |
| 90°-150° | 940.7 | 10.5 |
| 90°-180° | 953.0 | 10.7 |
| 0°-180° | 8945.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2408 | 2408 | 2408 | 2408 | 2408 | |
| 5° | 2408 | 2408 | 2402 | 2390 | 2396 | 229 |
| 15° | 2315 | 2321 | 2327 | 2321 | 2332 | 654 |
| 25° | 2125 | 2130 | 2148 | 2171 | 2188 | 980 |
| 35° | 1865 | 1871 | 1917 | 1974 | 2003 | 1165 |
| 45° | 1547 | 1570 | 1651 | 1749 | 1790 | 1192 |
| 55° | 1172 | 1218 | 1351 | 1501 | 1547 | 1048 |
| 65° | 785 | 872 | 1068 | 1230 | 1288 | 777 |
| 75° | 393 | 548 | 797 | 982 | 1056 | 418 |
| 85° | 69 | 289 | 566 | 756 | 826 | 89 |
| 90° | 6 | 202 | 462 | 652 | 716 | 5 |
| 95° | 0 | 139 | 375 | 554 | 618 | 0 |
| 105° | 0 | 69 | 242 | 393 | 450 | 0 |
| 115° | 0 | 40 | 150 | 266 | 306 | 0 |
| 125° | 0 | 29 | 92 | 167 | 202 | 0 |
| 135° | 0 | 17 | 58 | 104 | 121 | 0 |
| 145° | 0 | 17 | 35 | 58 | 69 | 0 |
| 155° | 0 | 12 | 17 | 29 | 35 | 0 |
| 165° | 0 | 6 | 12 | 12 | 17 | 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° | 2407.5 | 2407.5 | 2407.5 | 2407.5 | 2407.5 |
| 2.5° | 2419.0 | 2419.0 | 2413.3 | 2395.9 | 2390.2 |
| 5° | 2407.5 | 2407.5 | 2401.7 | 2390.2 | 2395.9 |
| 7.5° | 2395.9 | 2395.9 | 2395.9 | 2384.4 | 2390.2 |
| 10° | 2378.6 | 2378.6 | 2378.6 | 2361.3 | 2372.8 |
| 12.5° | 2349.8 | 2355.5 | 2349.8 | 2344.0 | 2349.8 |
| 15° | 2315.1 | 2320.9 | 2326.7 | 2320.9 | 2332.4 |
| 17.5° | 2280.5 | 2280.5 | 2292.0 | 2297.8 | 2309.3 |
| 20° | 2234.3 | 2240.1 | 2251.6 | 2257.4 | 2268.9 |
| 22.5° | 2182.3 | 2182.3 | 2199.6 | 2211.2 | 2228.5 |
| 25° | 2124.6 | 2130.4 | 2147.7 | 2170.8 | 2188.1 |
| 27.5° | 2066.9 | 2072.6 | 2095.7 | 2124.6 | 2141.9 |
| 30° | 2003.4 | 2009.1 | 2043.8 | 2078.4 | 2101.5 |
| 32.5° | 1934.1 | 1939.8 | 1980.3 | 2026.4 | 2049.5 |
| 35° | 1864.8 | 1870.6 | 1916.8 | 1974.5 | 2003.4 |
| 37.5° | 1784.0 | 1801.3 | 1859.0 | 1922.5 | 1951.4 |
| 40° | 1708.9 | 1726.2 | 1789.7 | 1864.8 | 1899.4 |
| 42.5° | 1633.9 | 1651.2 | 1720.5 | 1812.8 | 1841.7 |
| 45° | 1547.3 | 1570.4 | 1651.2 | 1749.3 | 1789.7 |
| 47.5° | 1460.7 | 1489.5 | 1581.9 | 1685.8 | 1732.0 |
| 50° | 1356.7 | 1391.4 | 1506.8 | 1622.3 | 1674.3 |
| 52.5° | 1264.4 | 1304.8 | 1426.0 | 1564.6 | 1610.8 |
| 55° | 1172.0 | 1218.2 | 1351.0 | 1501.1 | 1547.3 |
| 57.5° | 1079.6 | 1131.6 | 1281.7 | 1426.0 | 1489.5 |
| 60° | 981.5 | 1045.0 | 1206.6 | 1356.7 | 1414.5 |
| 62.5° | 883.3 | 958.4 | 1137.4 | 1293.2 | 1351.0 |
| 65° | 785.2 | 871.8 | 1068.1 | 1229.7 | 1287.5 |
| 67.5° | 687.0 | 790.9 | 993.0 | 1166.2 | 1229.7 |
| 70° | 588.9 | 704.3 | 929.5 | 1108.5 | 1172.0 |
| 72.5° | 490.7 | 623.5 | 860.2 | 1045.0 | 1114.3 |
| 75° | 392.6 | 548.5 | 796.7 | 981.5 | 1056.5 |
| 77.5° | 300.2 | 473.4 | 733.2 | 923.7 | 993.0 |
| 80° | 213.6 | 409.9 | 675.5 | 866.0 | 935.3 |
| 82.5° | 138.6 | 346.4 | 617.7 | 808.3 | 877.5 |
| 85° | 69.3 | 288.7 | 565.8 | 756.3 | 825.6 |
| 87.5° | 23.1 | 242.5 | 513.8 | 704.3 | 773.6 |
| 90° | 5.8 | 202.1 | 461.9 | 652.4 | 715.9 |
| 92.5° | 0.0 | 167.4 | 421.5 | 606.2 | 669.7 |
| 95° | 0.0 | 138.6 | 375.3 | 554.2 | 617.7 |
| 97.5° | 0.0 | 115.5 | 340.6 | 513.8 | 577.3 |
| 100° | 0.0 | 98.1 | 306.0 | 467.6 | 531.1 |
| 102.5° | 0.0 | 80.8 | 271.3 | 433.0 | 490.7 |
| 105° | 0.0 | 69.3 | 242.5 | 392.6 | 450.3 |
| 107.5° | 0.0 | 57.7 | 219.4 | 357.9 | 409.9 |
| 110° | 0.0 | 52.0 | 190.5 | 323.3 | 375.3 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 46.2 | 173.2 | 294.4 | 340.6 |
| 115° | 0.0 | 40.4 | 150.1 | 265.6 | 306.0 |
| 117.5° | 0.0 | 34.6 | 132.8 | 236.7 | 277.1 |
| 120° | 0.0 | 34.6 | 121.2 | 213.6 | 248.3 |
| 122.5° | 0.0 | 28.9 | 109.7 | 190.5 | 225.2 |
| 125° | 0.0 | 28.9 | 92.4 | 167.4 | 202.1 |
| 127.5° | 0.0 | 23.1 | 86.6 | 150.1 | 179.0 |
| 130° | 0.0 | 23.1 | 75.1 | 132.8 | 155.9 |
| 132.5° | 0.0 | 17.3 | 69.3 | 115.5 | 138.6 |
| 135° | 0.0 | 17.3 | 57.7 | 103.9 | 121.2 |
| 137.5° | 0.0 | 17.3 | 52.0 | 92.4 | 103.9 |
| 140° | 0.0 | 17.3 | 46.2 | 80.8 | 92.4 |
| 142.5° | 0.0 | 17.3 | 40.4 | 69.3 | 80.8 |
| 145° | 0.0 | 17.3 | 34.6 | 57.7 | 69.3 |
| 147.5° | 0.0 | 11.5 | 28.9 | 52.0 | 57.7 |
| 150° | 0.0 | 11.5 | 23.1 | 40.4 | 46.2 |
| 152.5° | 0.0 | 11.5 | 23.1 | 34.6 | 40.4 |
| 155° | 0.0 | 11.5 | 17.3 | 28.9 | 34.6 |
| 157.5° | 0.0 | 11.5 | 17.3 | 23.1 | 28.9 |
| 160° | 0.0 | 5.8 | 11.5 | 17.3 | 23.1 |
| 162.5° | 0.0 | 5.8 | 11.5 | 17.3 | 23.1 |
| 165° | 0.0 | 5.8 | 11.5 | 11.5 | 17.3 |
| 167.5° | 0.0 | 5.8 | 11.5 | 11.5 | 11.5 |
| 170° | 0.0 | 5.8 | 5.8 | 11.5 | 5.8 |
| 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)