

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: P290513

Luminaire Tested: **8SSRK-SLW-10-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-17)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-SLW-10-L835-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9837.8 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

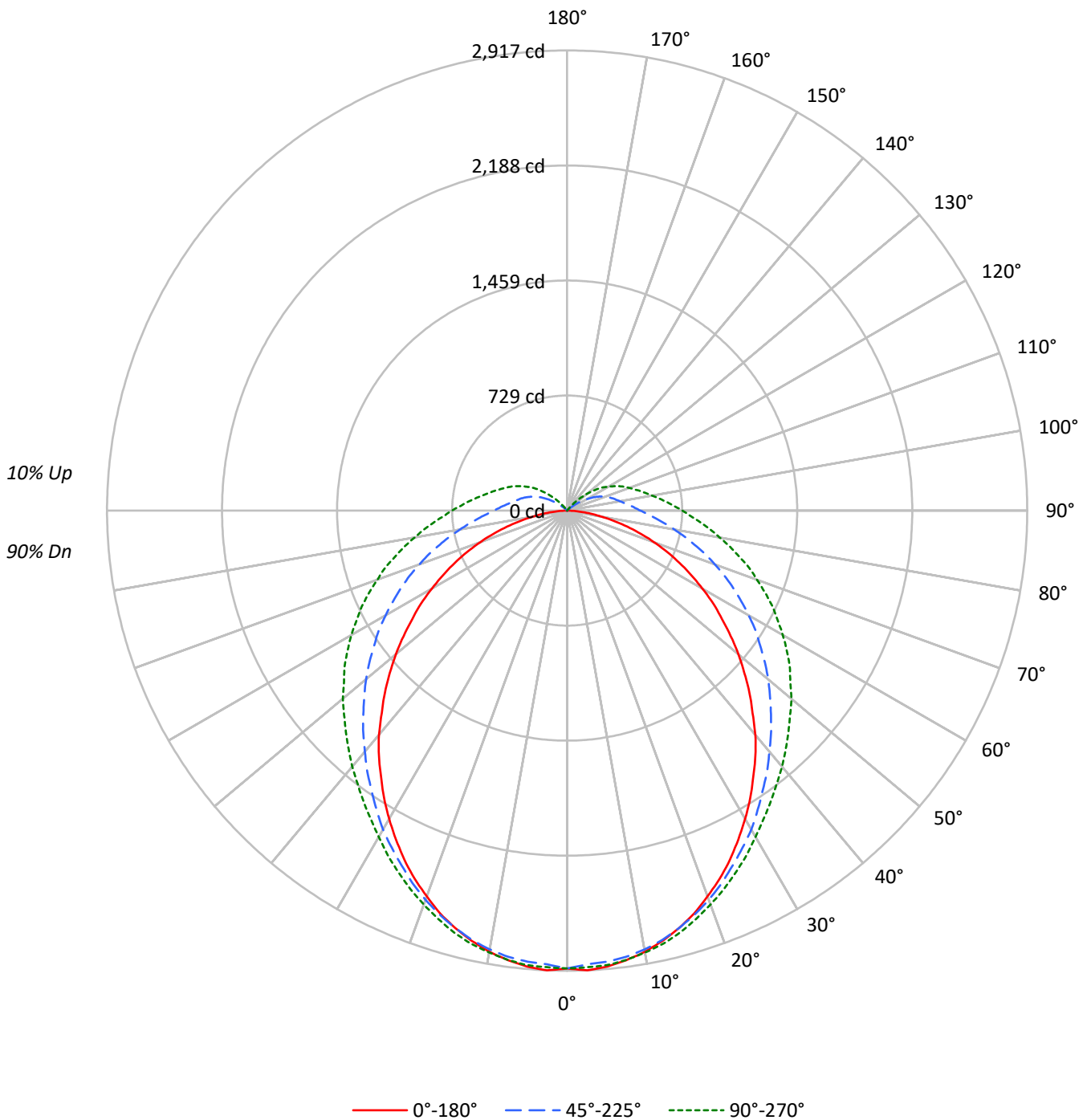
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 90 |
| 1 | 104 | 99 | 94 | 89 | 101 | 96 | 91 | 87 | 89 | 86 | 82 | 84 | 81 | 78 | 79 | 76 | 74 | 71 |
| 2 | 94 | 85 | 78 | 71 | 91 | 82 | 76 | 70 | 77 | 72 | 67 | 72 | 68 | 64 | 68 | 64 | 61 | 58 |
| 3 | 86 | 74 | 66 | 59 | 82 | 72 | 64 | 58 | 68 | 61 | 55 | 63 | 58 | 53 | 60 | 55 | 51 | 48 |
| 4 | 78 | 66 | 56 | 49 | 75 | 64 | 55 | 49 | 60 | 53 | 47 | 56 | 50 | 45 | 53 | 48 | 43 | 41 |
| 5 | 72 | 59 | 49 | 42 | 69 | 57 | 48 | 42 | 54 | 46 | 40 | 50 | 44 | 39 | 48 | 42 | 38 | 35 |
| 6 | 66 | 53 | 43 | 37 | 64 | 51 | 43 | 36 | 48 | 41 | 35 | 46 | 39 | 34 | 43 | 37 | 33 | 31 |
| 7 | 61 | 48 | 39 | 32 | 59 | 46 | 38 | 32 | 44 | 36 | 31 | 42 | 35 | 30 | 39 | 34 | 29 | 27 |
| 8 | 57 | 43 | 35 | 29 | 55 | 42 | 34 | 28 | 40 | 33 | 28 | 38 | 32 | 27 | 36 | 30 | 26 | 24 |
| 9 | 53 | 40 | 32 | 26 | 51 | 39 | 31 | 26 | 37 | 30 | 25 | 35 | 29 | 24 | 33 | 28 | 24 | 22 |
| 10 | 50 | 37 | 29 | 23 | 48 | 36 | 28 | 23 | 34 | 27 | 23 | 33 | 26 | 22 | 31 | 26 | 21 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 93726 | 93726 | 93726 |
| 5° | 93913 | 74515 | 69459 |
| 10° | 92782 | 61706 | 54702 |
| 15° | 91078 | 51984 | 44681 |
| 20° | 88752 | 44341 | 37185 |
| 25° | 86164 | 38028 | 31461 |
| 30° | 83149 | 32963 | 26905 |
| 35° | 79926 | 28503 | 23343 |
| 40° | 76901 | 24834 | 20510 |
| 45° | 73115 | 21707 | 18117 |
| 50° | 69490 | 19047 | 16169 |
| 55° | 65508 | 16616 | 14448 |
| 60° | 61710 | 14491 | 12865 |
| 65° | 57445 | 12518 | 11455 |
| 70° | 52295 | 10673 | 10082 |
| 75° | 45530 | 8979 | 8839 |
| 80° | 36887 | 7478 | 7705 |
| 85° | 26034 | 6234 | 6714 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 274.3 | 2.8 |
| 10°-20° | 775.7 | 7.9 |
| 20°-30° | 1147.6 | 11.7 |
| 30°-40° | 1355.4 | 13.8 |
| 40°-50° | 1409.0 | 14.3 |
| 50°-60° | 1328.4 | 13.5 |
| 60°-70° | 1132.3 | 11.5 |
| 70°-80° | 856.4 | 8.7 |
| 80°-90° | 577.8 | 5.9 |
| 90°-100° | 396.7 | 4.0 |
| 100°-110° | 284.5 | 2.9 |
| 110°-120° | 182.6 | 1.9 |
| 120°-130° | 93.1 | 0.9 |
| 130°-140° | 23.6 | 0.2 |
| 140°-150° | 0.3 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 2197.7 | 22.3 |
| 0°-40° | 3553.0 | 36.1 |
| 0°-60° | 6290.4 | 63.9 |
| 0°-90° | 8856.9 | 90.0 |
| 90°-120° | 863.8 | 8.8 |
| 90°-150° | 980.9 | 10.0 |
| 90°-180° | 981.0 | 10.0 |
| 0°-180° | 9837.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2902 | 2902 | 2902 | 2902 | 2902 | |
| 5° | 2902 | 2895 | 2871 | 2898 | 2893 | 275 |
| 15° | 2740 | 2748 | 2740 | 2766 | 2769 | 771 |
| 25° | 2442 | 2470 | 2482 | 2525 | 2530 | 1123 |
| 35° | 2057 | 2106 | 2162 | 2227 | 2251 | 1288 |
| 45° | 1634 | 1715 | 1827 | 1940 | 1984 | 1261 |
| 55° | 1198 | 1322 | 1494 | 1654 | 1723 | 1075 |
| 65° | 785 | 945 | 1163 | 1355 | 1436 | 779 |
| 75° | 393 | 584 | 836 | 1049 | 1128 | 420 |
| 85° | 87 | 293 | 564 | 772 | 847 | 99 |
| 90° | 1 | 207 | 463 | 660 | 730 | 5 |
| 95° | 1 | 164 | 394 | 568 | 632 | 2 |
| 105° | 2 | 105 | 299 | 430 | 479 | 3 |
| 115° | 2 | 14 | 207 | 325 | 365 | 2 |
| 125° | 2 | 4 | 87 | 202 | 243 | 2 |
| 135° | 2 | 1 | 1 | 64 | 94 | 2 |
| 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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CATALOG NUMBER: 8SSRK-SLW-10-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2902.5 | 2902.5 | 2902.5 | 2902.5 | 2902.5 |
| 2.5° | 2917.2 | 2907.4 | 2879.2 | 2903.7 | 2897.6 |
| 5° | 2902.5 | 2895.2 | 2870.6 | 2897.6 | 2892.7 |
| 7.5° | 2874.3 | 2873.1 | 2853.5 | 2881.7 | 2873.1 |
| 10° | 2840.0 | 2841.2 | 2825.3 | 2853.5 | 2844.9 |
| 12.5° | 2793.5 | 2798.4 | 2787.3 | 2814.3 | 2813.1 |
| 15° | 2739.6 | 2748.1 | 2739.6 | 2766.5 | 2769.0 |
| 17.5° | 2678.3 | 2691.8 | 2685.6 | 2718.7 | 2715.0 |
| 20° | 2602.3 | 2620.7 | 2625.6 | 2658.7 | 2657.5 |
| 22.5° | 2526.4 | 2549.6 | 2558.2 | 2592.5 | 2597.4 |
| 25° | 2441.8 | 2470.0 | 2482.3 | 2525.1 | 2530.0 |
| 27.5° | 2349.9 | 2386.7 | 2408.7 | 2451.6 | 2462.7 |
| 30° | 2256.8 | 2296.0 | 2335.2 | 2378.1 | 2387.9 |
| 32.5° | 2160.0 | 2202.9 | 2248.2 | 2307.1 | 2318.1 |
| 35° | 2057.1 | 2106.1 | 2162.5 | 2227.4 | 2250.7 |
| 37.5° | 1960.3 | 2015.5 | 2081.6 | 2157.6 | 2182.1 |
| 40° | 1856.2 | 1912.5 | 1994.6 | 2080.4 | 2119.6 |
| 42.5° | 1739.8 | 1815.7 | 1913.8 | 2016.7 | 2051.0 |
| 45° | 1634.4 | 1715.3 | 1826.8 | 1939.5 | 1983.6 |
| 47.5° | 1524.2 | 1618.5 | 1744.7 | 1869.7 | 1917.4 |
| 50° | 1417.6 | 1520.5 | 1663.8 | 1798.6 | 1856.2 |
| 52.5° | 1307.3 | 1423.7 | 1579.3 | 1728.8 | 1782.7 |
| 55° | 1198.2 | 1322.0 | 1493.5 | 1654.0 | 1722.6 |
| 57.5° | 1100.2 | 1226.4 | 1416.3 | 1580.5 | 1650.3 |
| 60° | 990.0 | 1135.8 | 1329.3 | 1505.8 | 1579.3 |
| 62.5° | 888.3 | 1036.5 | 1243.6 | 1431.0 | 1504.5 |
| 65° | 785.4 | 944.6 | 1162.7 | 1355.1 | 1435.9 |
| 67.5° | 688.6 | 849.1 | 1080.6 | 1280.3 | 1357.5 |
| 70° | 585.6 | 759.6 | 996.1 | 1201.9 | 1280.3 |
| 72.5° | 491.3 | 670.2 | 917.7 | 1126.0 | 1210.5 |
| 75° | 393.3 | 584.4 | 835.6 | 1048.8 | 1128.4 |
| 77.5° | 306.3 | 501.1 | 762.1 | 976.5 | 1056.1 |
| 80° | 221.8 | 425.1 | 688.6 | 904.2 | 981.4 |
| 82.5° | 150.7 | 355.3 | 623.6 | 838.0 | 914.0 |
| 85° | 87.0 | 292.8 | 563.6 | 771.9 | 846.6 |
| 87.5° | 33.1 | 243.8 | 509.7 | 714.3 | 782.9 |
| 90° | 1.2 | 207.1 | 463.1 | 660.4 | 730.2 |
| 92.5° | 1.2 | 181.3 | 427.6 | 611.4 | 676.3 |
| 95° | 1.2 | 164.2 | 394.5 | 568.5 | 632.2 |
| 97.5° | 2.5 | 150.7 | 365.1 | 530.5 | 586.9 |
| 100° | 2.5 | 137.2 | 340.6 | 493.8 | 547.7 |
| 102.5° | 2.5 | 123.7 | 318.6 | 460.7 | 510.9 |
| 105° | 2.5 | 105.4 | 298.9 | 430.0 | 479.1 |
| 107.5° | 2.5 | 82.1 | 276.9 | 404.3 | 447.2 |
| 110° | 2.5 | 60.0 | 253.6 | 378.6 | 420.2 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.5 | 36.8 | 232.8 | 352.9 | 393.3 |
| 115° | 2.5 | 13.5 | 207.1 | 324.7 | 365.1 |
| 117.5° | 2.5 | 4.9 | 176.4 | 297.7 | 333.3 |
| 120° | 2.5 | 3.7 | 147.0 | 268.3 | 303.9 |
| 122.5° | 2.5 | 3.7 | 116.4 | 236.5 | 274.4 |
| 125° | 2.5 | 3.7 | 87.0 | 202.2 | 242.6 |
| 127.5° | 2.5 | 2.5 | 56.4 | 166.6 | 203.4 |
| 130° | 2.5 | 2.5 | 27.0 | 132.3 | 167.9 |
| 132.5° | 2.5 | 2.5 | 1.2 | 96.8 | 131.1 |
| 135° | 2.5 | 1.2 | 1.2 | 63.7 | 94.3 |
| 137.5° | 2.5 | 1.2 | 0.0 | 30.6 | 61.3 |
| 140° | 2.5 | 1.2 | 0.0 | 0.0 | 24.5 |
| 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)