

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: P290372

Luminaire Tested: **4SSRK-SLN-60-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-SLN-60-L930-CD1-U
Description: 6000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5044.7 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

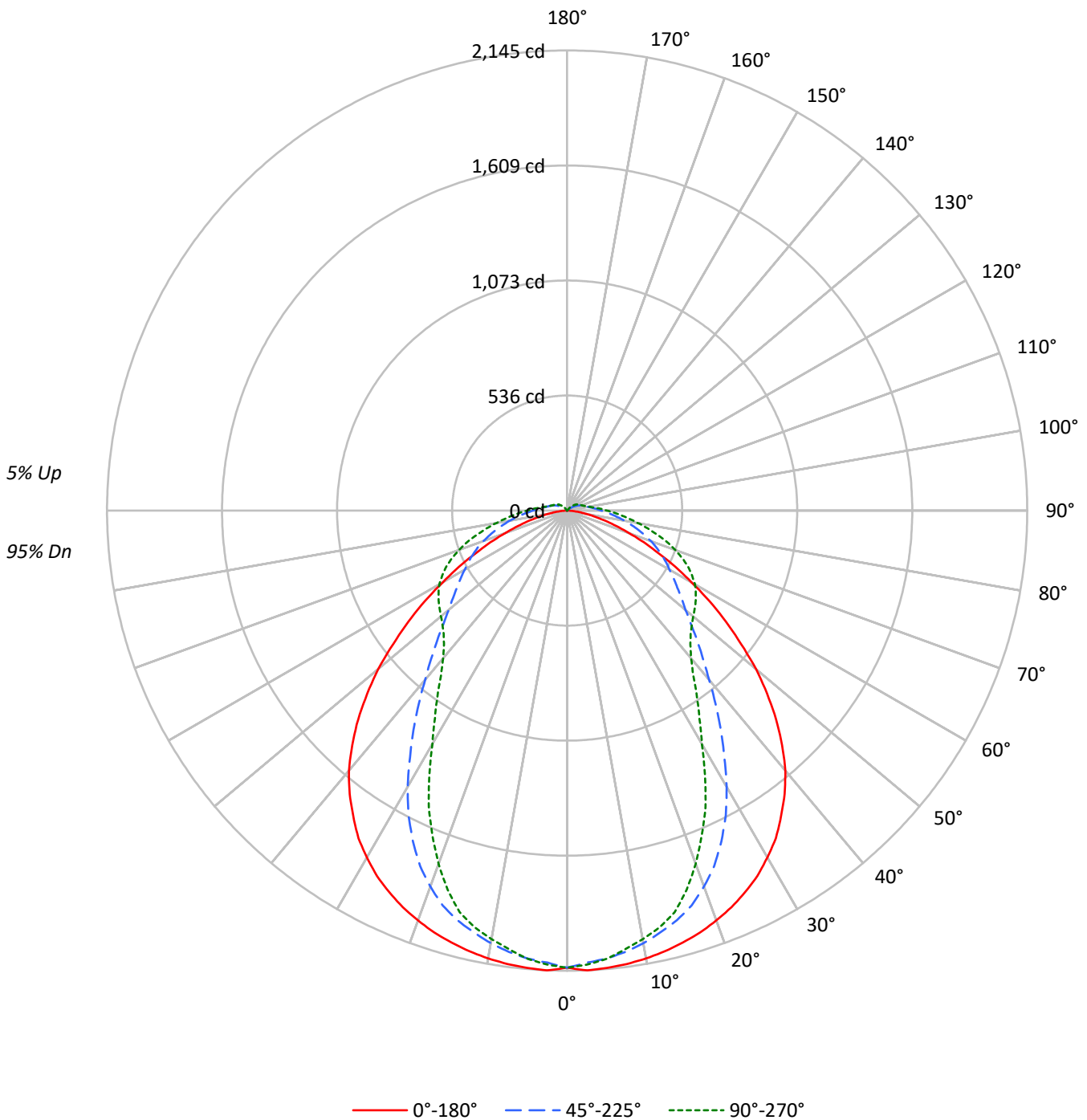
Input Watts (W): 44.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 4SSRK-SLN-60-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290372

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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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 108 | 108 | 108 | 103 | 103 | 103 | 98 | 98 | 98 | 95 | | | | | | | | |
| 1 | 107 | 102 | 98 | 94 | 104 | 100 | 96 | 92 | 94 | 91 | 88 | 90 | 87 | 85 | 85 | 83 | 81 | 79 | | | | | | | | |
| 2 | 98 | 90 | 83 | 77 | 95 | 87 | 81 | 76 | 83 | 78 | 73 | 79 | 75 | 71 | 75 | 72 | 69 | 66 | | | | | | | | |
| 3 | 90 | 79 | 71 | 65 | 87 | 77 | 70 | 64 | 74 | 67 | 62 | 70 | 65 | 60 | 67 | 63 | 59 | 56 | | | | | | | | |
| 4 | 82 | 71 | 62 | 56 | 80 | 69 | 61 | 55 | 66 | 59 | 54 | 63 | 57 | 52 | 60 | 55 | 51 | 49 | | | | | | | | |
| 5 | 76 | 64 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 52 | 47 | 57 | 51 | 46 | 55 | 49 | 45 | 43 | | | | | | | | |
| 6 | 71 | 58 | 49 | 43 | 68 | 56 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 50 | 45 | 40 | 38 | | | | | | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 42 | 37 | 48 | 41 | 37 | 46 | 40 | 36 | 34 | | | | | | | | |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 43 | 37 | 33 | 31 | | | | | | | | |
| 9 | 57 | 44 | 37 | 31 | 56 | 44 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | | | | |
| 10 | 54 | 41 | 34 | 28 | 53 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 37 | 31 | 27 | 26 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 137613 | 137613 | 137613 |
| 5° | 138238 | 108724 | 100758 |
| 10° | 137995 | 89304 | 78020 |
| 15° | 137807 | 74856 | 62540 |
| 20° | 137663 | 62826 | 49044 |
| 25° | 137209 | 51954 | 37962 |
| 30° | 135944 | 41854 | 28328 |
| 35° | 133180 | 32828 | 21845 |
| 40° | 128893 | 25523 | 17381 |
| 45° | 120859 | 20270 | 14873 |
| 50° | 110011 | 16428 | 13373 |
| 55° | 96060 | 13896 | 12279 |
| 60° | 80740 | 11968 | 11214 |
| 65° | 65820 | 10395 | 9940 |
| 70° | 52134 | 8853 | 8435 |
| 75° | 39389 | 7305 | 6812 |
| 80° | 27526 | 5857 | 5262 |
| 85° | 16113 | 4580 | 4003 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 200.1 | 4.0 |
| 10°-20° | 560.9 | 11.1 |
| 20°-30° | 788.7 | 15.6 |
| 30°-40° | 825.9 | 16.4 |
| 40°-50° | 747.8 | 14.8 |
| 50°-60° | 636.4 | 12.6 |
| 60°-70° | 503.2 | 10.0 |
| 70°-80° | 342.6 | 6.8 |
| 80°-90° | 195.5 | 3.9 |
| 90°-100° | 108.4 | 2.1 |
| 100°-110° | 66.2 | 1.3 |
| 110°-120° | 40.3 | 0.8 |
| 120°-130° | 21.8 | 0.4 |
| 130°-140° | 6.6 | 0.1 |
| 140°-150° | 0.2 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1549.7 | 30.7 |
| 0°-40° | 2375.6 | 47.1 |
| 0°-60° | 3759.8 | 74.5 |
| 0°-90° | 4801.2 | 95.2 |
| 90°-120° | 214.9 | 4.3 |
| 90°-150° | 243.5 | 4.8 |
| 90°-180° | 244.0 | 4.8 |
| 0°-180° | 5044.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2131 | 2131 | 2131 | 2131 | 2131 | |
| 5° | 2140 | 2127 | 2096 | 2106 | 2098 | 204 |
| 15° | 2084 | 2044 | 1977 | 1956 | 1938 | 589 |
| 25° | 1963 | 1866 | 1701 | 1569 | 1526 | 904 |
| 35° | 1738 | 1543 | 1250 | 1093 | 1053 | 1086 |
| 45° | 1378 | 1094 | 856 | 811 | 814 | 1059 |
| 55° | 904 | 690 | 627 | 699 | 732 | 808 |
| 65° | 469 | 407 | 485 | 592 | 623 | 473 |
| 75° | 182 | 222 | 342 | 420 | 435 | 199 |
| 85° | 32 | 106 | 208 | 249 | 252 | 39 |
| 90° | 1 | 73 | 159 | 185 | 185 | 2 |
| 95° | 1 | 56 | 125 | 139 | 138 | 1 |
| 105° | 1 | 34 | 84 | 87 | 84 | 1 |
| 115° | 1 | 5 | 56 | 66 | 64 | 1 |
| 125° | 1 | 1 | 26 | 46 | 48 | 1 |
| 135° | 1 | 1 | 1 | 19 | 24 | 1 |
| 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 |



TEST NUMBER: P290372

CATALOG NUMBER: 4SSRK-SLN-60-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2130.8 | 2130.8 | 2130.8 | 2130.8 | 2130.8 |
| 2.5° | 2145.3 | 2133.7 | 2109.2 | 2124.9 | 2118.0 |
| 5° | 2140.1 | 2126.7 | 2096.4 | 2105.7 | 2098.1 |
| 7.5° | 2131.9 | 2113.9 | 2074.8 | 2077.7 | 2063.2 |
| 10° | 2119.7 | 2096.4 | 2048.0 | 2042.8 | 2028.8 |
| 12.5° | 2104.0 | 2071.9 | 2013.6 | 2006.6 | 1990.3 |
| 15° | 2084.1 | 2044.5 | 1976.9 | 1956.5 | 1937.9 |
| 17.5° | 2062.0 | 2011.9 | 1929.7 | 1884.2 | 1852.2 |
| 20° | 2033.4 | 1969.9 | 1865.0 | 1799.2 | 1752.5 |
| 22.5° | 2001.4 | 1924.5 | 1792.2 | 1693.1 | 1640.0 |
| 25° | 1962.9 | 1865.6 | 1700.7 | 1568.9 | 1526.4 |
| 27.5° | 1920.4 | 1804.4 | 1601.0 | 1447.1 | 1390.6 |
| 30° | 1866.8 | 1726.9 | 1487.3 | 1322.4 | 1257.1 |
| 32.5° | 1810.8 | 1643.5 | 1363.8 | 1197.7 | 1147.0 |
| 35° | 1738.5 | 1542.7 | 1249.6 | 1093.4 | 1053.1 |
| 37.5° | 1665.7 | 1434.9 | 1135.9 | 1000.1 | 964.6 |
| 40° | 1582.3 | 1325.9 | 1028.7 | 923.2 | 898.1 |
| 42.5° | 1483.3 | 1215.2 | 937.8 | 858.5 | 849.7 |
| 45° | 1378.4 | 1094.5 | 856.2 | 811.3 | 814.2 |
| 47.5° | 1264.1 | 985.0 | 782.1 | 773.4 | 788.0 |
| 50° | 1149.3 | 883.0 | 720.4 | 744.8 | 767.6 |
| 52.5° | 1021.7 | 784.5 | 671.4 | 721.5 | 748.9 |
| 55° | 903.9 | 690.1 | 627.1 | 699.4 | 732.0 |
| 57.5° | 786.8 | 609.6 | 588.6 | 676.6 | 711.0 |
| 60° | 670.2 | 536.2 | 551.3 | 652.2 | 688.3 |
| 62.5° | 568.8 | 466.3 | 518.7 | 624.8 | 656.3 |
| 65° | 469.2 | 407.4 | 484.9 | 592.1 | 623.0 |
| 67.5° | 386.4 | 354.9 | 451.1 | 553.1 | 581.1 |
| 70° | 307.7 | 305.4 | 415.0 | 510.0 | 535.6 |
| 72.5° | 240.1 | 260.5 | 377.1 | 465.1 | 489.6 |
| 75° | 182.4 | 222.1 | 341.5 | 419.6 | 434.8 |
| 77.5° | 133.5 | 185.9 | 305.4 | 373.6 | 384.1 |
| 80° | 91.5 | 154.4 | 271.0 | 327.5 | 335.1 |
| 82.5° | 57.7 | 127.6 | 237.8 | 286.2 | 291.4 |
| 85° | 32.1 | 105.5 | 208.1 | 248.9 | 252.4 |
| 87.5° | 12.2 | 86.8 | 181.3 | 216.2 | 219.1 |
| 90° | 0.6 | 73.4 | 159.1 | 185.3 | 185.3 |
| 92.5° | 0.6 | 64.1 | 141.0 | 160.9 | 162.0 |
| 95° | 1.2 | 56.5 | 125.3 | 138.7 | 137.5 |
| 97.5° | 1.2 | 51.3 | 110.7 | 121.8 | 118.3 |
| 100° | 1.2 | 46.6 | 99.7 | 107.2 | 103.7 |
| 102.5° | 1.2 | 41.4 | 90.9 | 95.6 | 91.5 |
| 105° | 1.2 | 34.4 | 83.9 | 87.4 | 83.9 |
| 107.5° | 1.2 | 27.4 | 76.3 | 81.0 | 77.5 |
| 110° | 1.2 | 20.4 | 69.4 | 75.2 | 72.3 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.6 | 12.8 | 62.9 | 69.9 | 68.2 |
| 115° | 1.2 | 4.7 | 56.5 | 65.9 | 64.1 |
| 117.5° | 0.6 | 2.3 | 48.4 | 61.2 | 60.6 |
| 120° | 0.6 | 1.7 | 40.8 | 57.1 | 57.1 |
| 122.5° | 0.6 | 1.7 | 33.8 | 51.3 | 53.6 |
| 125° | 0.6 | 1.2 | 25.6 | 45.5 | 48.4 |
| 127.5° | 0.6 | 1.2 | 18.1 | 39.6 | 43.1 |
| 130° | 0.6 | 1.2 | 9.3 | 32.6 | 37.3 |
| 132.5° | 0.6 | 1.2 | 1.2 | 25.6 | 30.9 |
| 135° | 1.2 | 1.2 | 1.2 | 18.7 | 24.5 |
| 137.5° | 1.2 | 1.2 | 1.2 | 9.9 | 17.5 |
| 140° | 1.2 | 1.2 | 0.6 | 0.6 | 8.2 |
| 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)