

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: P290316

Luminaire Tested: **8SSRK-SLC-60-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-16)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-SLC-60-L930-CD1-U
Description: 6000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 90 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5175.3 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

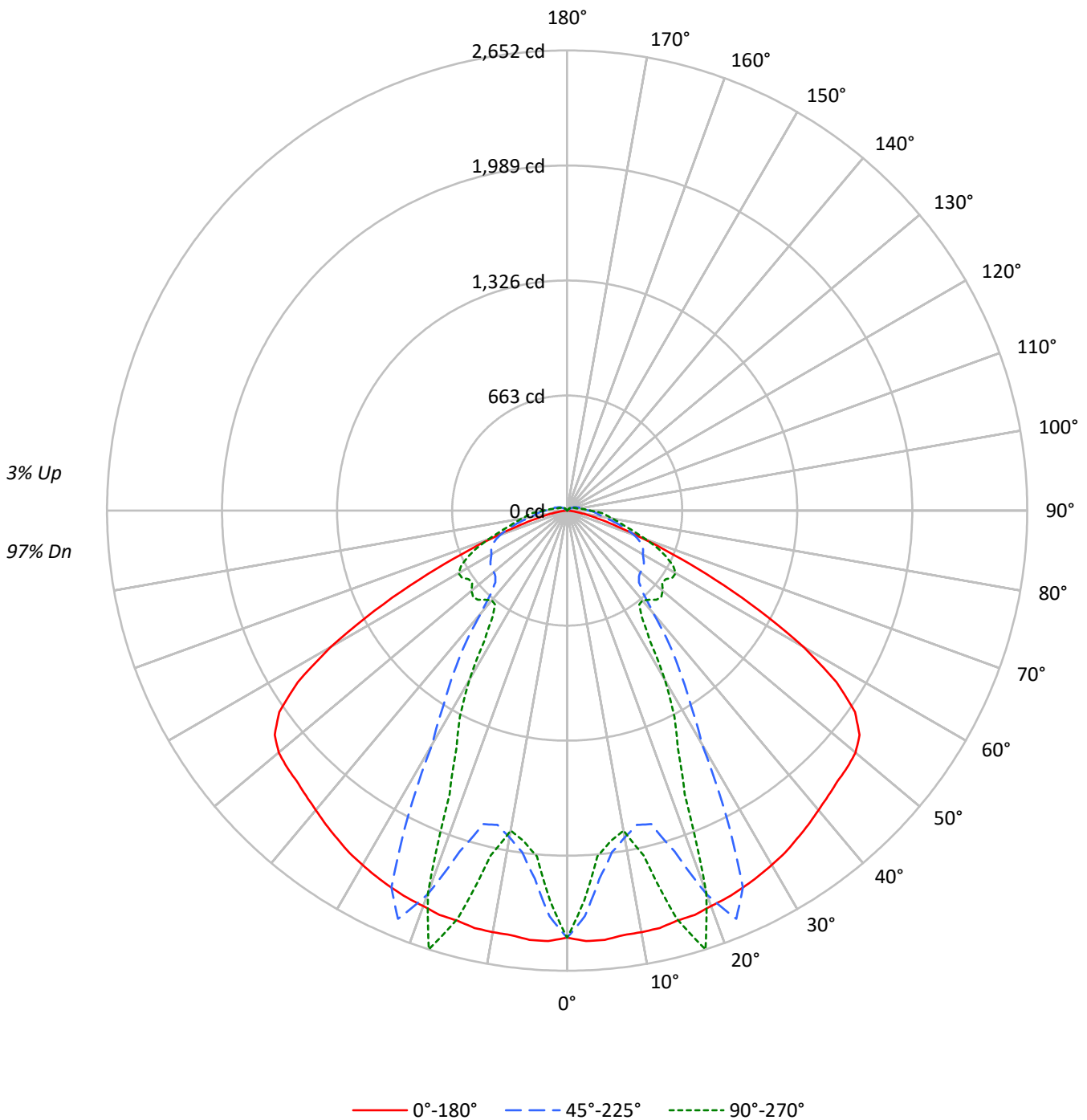
Input Watts (W): 41.3831
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 97 |
| 1 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 93 | 96 | 93 | 90 | 91 | 89 | 87 | 87 | 85 | 83 | 81 |
| 2 | 99 | 91 | 84 | 79 | 96 | 89 | 83 | 78 | 85 | 80 | 75 | 81 | 77 | 73 | 77 | 74 | 71 | 69 |
| 3 | 91 | 81 | 73 | 67 | 88 | 79 | 72 | 66 | 75 | 69 | 64 | 72 | 67 | 63 | 69 | 65 | 61 | 59 |
| 4 | 84 | 72 | 64 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 65 | 59 | 54 | 62 | 57 | 53 | 51 |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 50 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 51 | 47 | 45 |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 43 | 54 | 47 | 43 | 52 | 46 | 42 | 40 |
| 7 | 67 | 54 | 45 | 40 | 65 | 53 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 36 |
| 8 | 62 | 49 | 41 | 36 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 44 | 38 | 34 | 32 |
| 9 | 58 | 46 | 38 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 42 | 36 | 32 | 41 | 35 | 31 | 29 |
| 10 | 55 | 42 | 35 | 30 | 54 | 42 | 34 | 30 | 40 | 34 | 29 | 39 | 33 | 29 | 38 | 33 | 29 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|-------|-------|
| 0° | 79476 | 79476 | 79476 |
| 5° | 80346 | 55275 | 48036 |
| 10° | 80596 | 41761 | 35999 |
| 15° | 81324 | 35502 | 39248 |
| 20° | 82719 | 39788 | 32804 |
| 25° | 84604 | 36704 | 18739 |
| 30° | 86889 | 21981 | 12693 |
| 35° | 89721 | 14971 | 7769 |
| 40° | 93344 | 9629 | 6532 |
| 45° | 98623 | 6964 | 6641 |
| 50° | 106338 | 6312 | 6264 |
| 55° | 110700 | 6012 | 5793 |
| 60° | 98076 | 5489 | 5886 |
| 65° | 68657 | 5166 | 5035 |
| 70° | 39900 | 4391 | 3787 |
| 75° | 22678 | 3317 | 2694 |
| 80° | 12889 | 2341 | 2083 |
| 85° | 6224 | 1879 | 1705 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 204.5 | 4.0 |
| 10°-20° | 614.1 | 11.9 |
| 20°-30° | 903.9 | 17.5 |
| 30°-40° | 883.0 | 17.1 |
| 40°-50° | 732.0 | 14.1 |
| 50°-60° | 672.0 | 13.0 |
| 60°-70° | 532.5 | 10.3 |
| 70°-80° | 295.7 | 5.7 |
| 80°-90° | 156.6 | 3.0 |
| 90°-100° | 82.4 | 1.6 |
| 100°-110° | 49.6 | 1.0 |
| 110°-120° | 28.3 | 0.5 |
| 120°-130° | 15.6 | 0.3 |
| 130°-140° | 5.0 | 0.1 |
| 140°-150° | 0.1 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1722.4 | 33.3 |
| 0°-40° | 2605.4 | 50.3 |
| 0°-60° | 4009.5 | 77.5 |
| 0°-90° | 4994.3 | 96.5 |
| 90°-120° | 160.2 | 3.1 |
| 90°-150° | 181.0 | 3.5 |
| 90°-180° | 181.0 | 3.5 |
| 0°-180° | 5175.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2461 | 2461 | 2461 | 2461 | 2461 | |
| 5° | 2483 | 2344 | 2129 | 2039 | 2000 | 236 |
| 15° | 2446 | 1954 | 1871 | 2291 | 2432 | 694 |
| 25° | 2398 | 1865 | 2396 | 1634 | 1507 | 1108 |
| 35° | 2309 | 2226 | 1136 | 812 | 749 | 1449 |
| 45° | 2205 | 1007 | 586 | 669 | 727 | 1710 |
| 55° | 2025 | 448 | 540 | 647 | 691 | 1758 |
| 65° | 939 | 291 | 480 | 609 | 631 | 950 |
| 75° | 196 | 178 | 309 | 330 | 344 | 232 |
| 85° | 21 | 87 | 170 | 206 | 215 | 29 |
| 90° | 1 | 64 | 124 | 136 | 135 | 1 |
| 95° | 1 | 50 | 96 | 101 | 96 | 1 |
| 105° | 1 | 34 | 68 | 58 | 53 | 1 |
| 115° | 1 | 4 | 44 | 42 | 39 | 1 |
| 125° | 1 | 1 | 20 | 32 | 32 | 1 |
| 135° | 1 | 1 | 1 | 14 | 17 | 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: P290316

CATALOG NUMBER: 8SSRK-SLC-60-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2461.2 | 2461.2 | 2461.2 | 2461.2 | 2461.2 |
| 2.5° | 2483.2 | 2438.7 | 2339.8 | 2272.8 | 2250.2 |
| 5° | 2483.2 | 2343.9 | 2129.4 | 2038.7 | 2000.5 |
| 7.5° | 2468.1 | 2223.6 | 1985.5 | 1946.2 | 1921.3 |
| 10° | 2467.0 | 2095.3 | 1912.1 | 1879.1 | 1872.2 |
| 12.5° | 2464.1 | 2024.2 | 1855.4 | 1972.2 | 2035.2 |
| 15° | 2446.2 | 1953.7 | 1871.0 | 2291.3 | 2432.3 |
| 17.5° | 2443.3 | 1901.1 | 2060.6 | 2592.4 | 2652.0 |
| 20° | 2425.4 | 1859.5 | 2356.0 | 2554.3 | 2344.4 |
| 22.5° | 2413.8 | 1830.6 | 2546.2 | 2054.9 | 1769.3 |
| 25° | 2397.6 | 1865.3 | 2395.9 | 1633.5 | 1506.9 |
| 27.5° | 2379.1 | 1976.8 | 1986.1 | 1421.9 | 1338.1 |
| 30° | 2358.3 | 2151.4 | 1557.2 | 1242.7 | 1126.6 |
| 32.5° | 2337.5 | 2279.1 | 1325.4 | 1020.2 | 883.8 |
| 35° | 2309.2 | 2226.5 | 1135.8 | 811.5 | 749.1 |
| 37.5° | 2282.6 | 1983.8 | 963.0 | 700.6 | 682.6 |
| 40° | 2253.1 | 1598.2 | 773.4 | 656.6 | 675.1 |
| 42.5° | 2228.3 | 1267.0 | 649.7 | 652.0 | 697.7 |
| 45° | 2204.6 | 1006.9 | 586.1 | 668.8 | 727.1 |
| 47.5° | 2190.7 | 800.6 | 560.7 | 689.0 | 735.8 |
| 50° | 2169.3 | 641.6 | 551.4 | 693.0 | 719.1 |
| 52.5° | 2124.2 | 528.9 | 548.5 | 671.7 | 689.6 |
| 55° | 2024.8 | 448.5 | 540.4 | 647.4 | 690.7 |
| 57.5° | 1841.6 | 398.8 | 522.0 | 652.6 | 719.1 |
| 60° | 1573.4 | 360.1 | 503.5 | 669.3 | 722.5 |
| 62.5° | 1252.0 | 324.8 | 493.6 | 655.5 | 688.4 |
| 65° | 938.7 | 291.3 | 479.8 | 608.7 | 631.2 |
| 67.5° | 657.2 | 262.4 | 448.5 | 550.3 | 562.4 |
| 70° | 446.8 | 234.7 | 409.8 | 475.7 | 480.9 |
| 72.5° | 300.6 | 206.9 | 361.8 | 398.8 | 406.9 |
| 75° | 195.9 | 177.5 | 308.7 | 329.5 | 343.9 |
| 77.5° | 124.9 | 150.9 | 256.1 | 282.7 | 301.1 |
| 80° | 77.5 | 124.9 | 215.6 | 253.8 | 265.3 |
| 82.5° | 43.4 | 104.0 | 186.7 | 226.6 | 232.9 |
| 85° | 20.8 | 87.3 | 169.9 | 206.4 | 215.0 |
| 87.5° | 5.2 | 74.0 | 149.7 | 171.1 | 171.1 |
| 90° | 0.6 | 63.6 | 124.3 | 135.8 | 134.7 |
| 92.5° | 0.6 | 56.1 | 108.1 | 115.6 | 113.3 |
| 95° | 1.2 | 50.3 | 96.5 | 100.6 | 96.0 |
| 97.5° | 1.2 | 47.4 | 89.0 | 86.1 | 79.2 |
| 100° | 1.2 | 43.9 | 80.9 | 73.4 | 65.9 |
| 102.5° | 1.2 | 39.3 | 74.0 | 64.7 | 58.4 |
| 105° | 1.2 | 33.5 | 67.6 | 58.4 | 52.6 |
| 107.5° | 1.2 | 26.6 | 60.7 | 53.2 | 48.6 |
| 110° | 1.2 | 19.1 | 54.3 | 49.1 | 45.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 1.2 | 11.6 | 49.1 | 45.7 | 42.8 |
| 115° | 1.2 | 4.0 | 43.9 | 41.6 | 38.7 |
| 117.5° | 1.2 | 1.7 | 38.7 | 39.9 | 36.4 |
| 120° | 1.2 | 1.7 | 32.4 | 37.6 | 34.7 |
| 122.5° | 1.2 | 1.7 | 26.6 | 35.3 | 33.5 |
| 125° | 1.2 | 1.2 | 20.2 | 32.4 | 31.8 |
| 127.5° | 1.2 | 1.2 | 13.9 | 28.3 | 29.5 |
| 130° | 1.2 | 1.2 | 6.9 | 23.1 | 26.0 |
| 132.5° | 1.2 | 1.2 | 1.2 | 19.1 | 21.4 |
| 135° | 1.2 | 1.2 | 1.2 | 13.9 | 17.3 |
| 137.5° | 1.2 | 1.2 | 1.2 | 6.9 | 12.7 |
| 140° | 1.2 | 1.2 | 1.2 | 1.2 | 5.2 |
| 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)