

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: P290324

Luminaire Tested: **8SSRK-SLC-80-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290324
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-80-L930-CD1-U
Description: 8000 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: 7074.6 lumens
Efficiency: N/A
Efficacy: 124.9 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

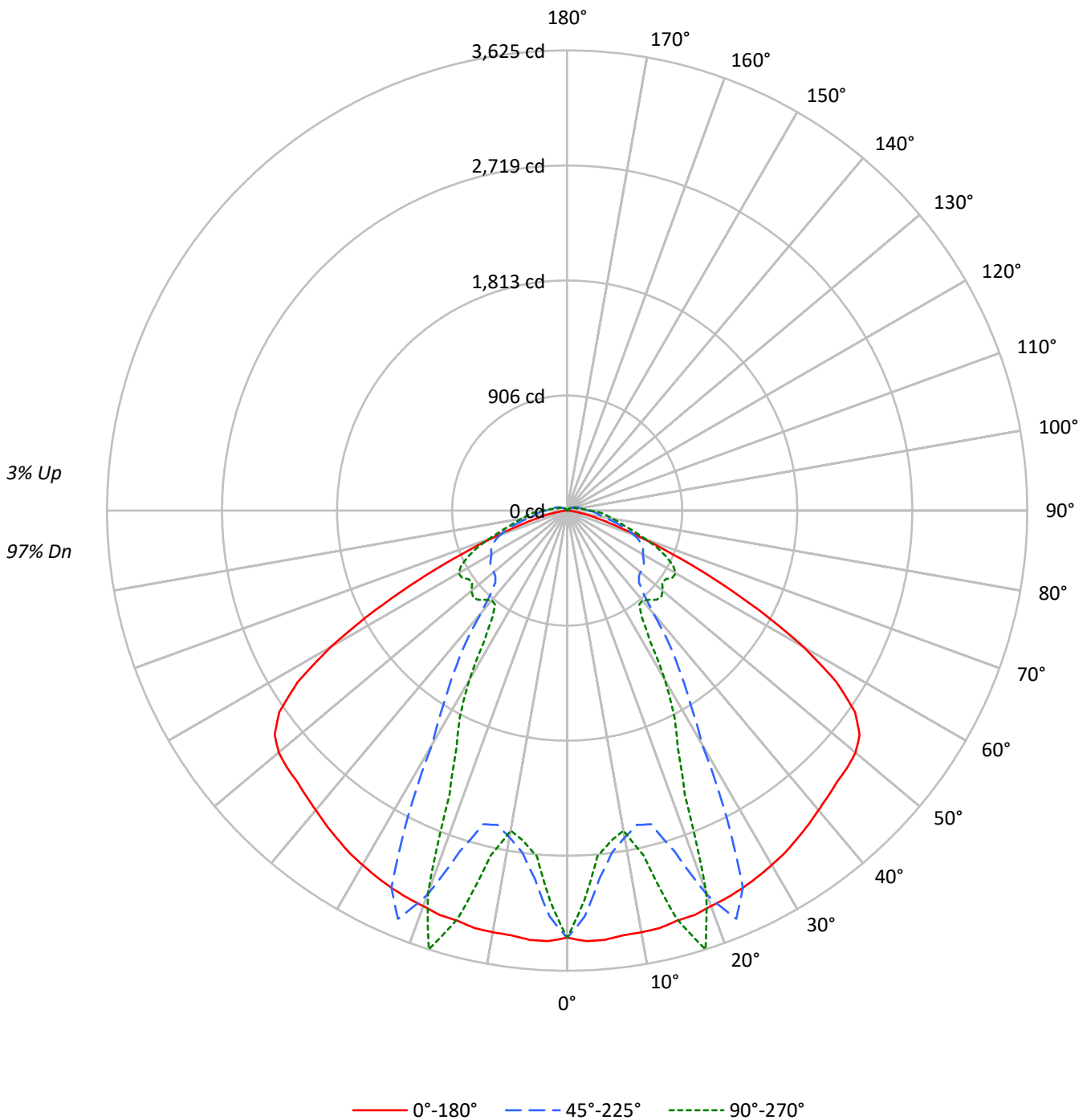
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 8SSRK-SLC-80-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290324

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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° | 108645 | 108645 | 108645 |
| 5° | 109832 | 75561 | 65665 |
| 10° | 110175 | 57087 | 49210 |
| 15° | 111168 | 48533 | 53653 |
| 20° | 113076 | 54391 | 44845 |
| 25° | 115656 | 50174 | 25615 |
| 30° | 118777 | 30049 | 17351 |
| 35° | 122650 | 20466 | 10621 |
| 40° | 127602 | 13163 | 8930 |
| 45° | 134818 | 9520 | 9079 |
| 50° | 145368 | 8629 | 8563 |
| 55° | 151326 | 8219 | 7919 |
| 60° | 134067 | 7502 | 8046 |
| 65° | 93854 | 7060 | 6884 |
| 70° | 54546 | 6002 | 5177 |
| 75° | 31013 | 4534 | 3682 |
| 80° | 17612 | 3200 | 2848 |
| 85° | 8499 | 2569 | 2331 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 279.5 | 4.0 |
| 10°-20° | 839.4 | 11.9 |
| 20°-30° | 1235.6 | 17.5 |
| 30°-40° | 1207.1 | 17.1 |
| 40°-50° | 1000.7 | 14.1 |
| 50°-60° | 918.7 | 13.0 |
| 60°-70° | 728.0 | 10.3 |
| 70°-80° | 404.2 | 5.7 |
| 80°-90° | 214.1 | 3.0 |
| 90°-100° | 112.6 | 1.6 |
| 100°-110° | 67.8 | 1.0 |
| 110°-120° | 38.7 | 0.5 |
| 120°-130° | 21.4 | 0.3 |
| 130°-140° | 6.8 | 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° | 2354.6 | 33.3 |
| 0°-40° | 3561.6 | 50.3 |
| 0°-60° | 5481.0 | 77.5 |
| 0°-90° | 6827.3 | 96.5 |
| 90°-120° | 219.0 | 3.1 |
| 90°-150° | 247.4 | 3.5 |
| 90°-180° | 247.0 | 3.5 |
| 0°-180° | 7074.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3364 | 3364 | 3364 | 3364 | 3364 | |
| 5° | 3394 | 3204 | 2911 | 2787 | 2735 | 323 |
| 15° | 3344 | 2671 | 2558 | 3132 | 3325 | 949 |
| 25° | 3278 | 2550 | 3275 | 2233 | 2060 | 1515 |
| 35° | 3157 | 3044 | 1553 | 1109 | 1024 | 1981 |
| 45° | 3014 | 1376 | 801 | 914 | 994 | 2337 |
| 55° | 2768 | 613 | 739 | 885 | 944 | 2404 |
| 65° | 1283 | 398 | 656 | 832 | 863 | 1299 |
| 75° | 268 | 243 | 422 | 450 | 470 | 318 |
| 85° | 28 | 119 | 232 | 282 | 294 | 39 |
| 90° | 1 | 87 | 170 | 186 | 184 | 1 |
| 95° | 2 | 69 | 132 | 138 | 131 | 1 |
| 105° | 2 | 46 | 92 | 80 | 72 | 2 |
| 115° | 2 | 6 | 60 | 57 | 53 | 2 |
| 125° | 2 | 2 | 28 | 44 | 44 | 1 |
| 135° | 2 | 2 | 2 | 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: P290324

CATALOG NUMBER: 8SSRK-SLC-80-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3364.5 | 3364.5 | 3364.5 | 3364.5 | 3364.5 |
| 2.5° | 3394.5 | 3333.7 | 3198.6 | 3106.9 | 3076.1 |
| 5° | 3394.5 | 3204.1 | 2910.9 | 2786.9 | 2734.7 |
| 7.5° | 3374.0 | 3039.7 | 2714.2 | 2660.5 | 2626.5 |
| 10° | 3372.4 | 2864.3 | 2613.8 | 2568.8 | 2559.3 |
| 12.5° | 3368.4 | 2767.1 | 2536.4 | 2696.0 | 2782.1 |
| 15° | 3343.9 | 2670.7 | 2557.7 | 3132.2 | 3325.0 |
| 17.5° | 3340.0 | 2598.8 | 2816.9 | 3543.9 | 3625.2 |
| 20° | 3315.5 | 2541.9 | 3220.7 | 3491.7 | 3204.9 |
| 22.5° | 3299.7 | 2502.4 | 3480.6 | 2809.0 | 2418.7 |
| 25° | 3277.6 | 2549.8 | 3275.2 | 2233.0 | 2059.9 |
| 27.5° | 3252.3 | 2702.3 | 2715.0 | 1943.8 | 1829.2 |
| 30° | 3223.8 | 2941.0 | 2128.7 | 1698.8 | 1540.0 |
| 32.5° | 3195.4 | 3115.6 | 1811.8 | 1394.6 | 1208.1 |
| 35° | 3156.7 | 3043.7 | 1552.7 | 1109.4 | 1024.0 |
| 37.5° | 3120.3 | 2711.8 | 1316.4 | 957.7 | 933.2 |
| 40° | 3080.0 | 2184.8 | 1057.2 | 897.6 | 922.9 |
| 42.5° | 3046.1 | 1732.0 | 888.1 | 891.3 | 953.7 |
| 45° | 3013.7 | 1376.5 | 801.2 | 914.2 | 994.0 |
| 47.5° | 2994.7 | 1094.4 | 766.5 | 941.9 | 1005.9 |
| 50° | 2965.5 | 877.1 | 753.8 | 947.4 | 983.0 |
| 52.5° | 2903.8 | 723.0 | 749.9 | 918.2 | 942.7 |
| 55° | 2767.9 | 613.2 | 738.8 | 885.0 | 944.2 |
| 57.5° | 2517.4 | 545.2 | 713.5 | 892.1 | 983.0 |
| 60° | 2150.8 | 492.3 | 688.2 | 915.0 | 987.7 |
| 62.5° | 1711.5 | 444.1 | 674.8 | 896.0 | 941.1 |
| 65° | 1283.2 | 398.2 | 655.8 | 832.0 | 862.9 |
| 67.5° | 898.4 | 358.7 | 613.2 | 752.2 | 768.8 |
| 70° | 610.8 | 320.8 | 560.2 | 650.3 | 657.4 |
| 72.5° | 410.9 | 282.9 | 494.6 | 545.2 | 556.3 |
| 75° | 267.9 | 242.6 | 421.9 | 450.4 | 470.1 |
| 77.5° | 170.7 | 206.2 | 350.0 | 386.4 | 411.7 |
| 80° | 105.9 | 170.7 | 294.7 | 346.9 | 362.7 |
| 82.5° | 59.3 | 142.2 | 255.2 | 309.7 | 318.4 |
| 85° | 28.4 | 119.3 | 232.3 | 282.1 | 293.9 |
| 87.5° | 7.1 | 101.1 | 204.7 | 233.9 | 233.9 |
| 90° | 0.8 | 86.9 | 169.9 | 185.7 | 184.1 |
| 92.5° | 0.8 | 76.6 | 147.8 | 158.0 | 154.9 |
| 95° | 1.6 | 68.7 | 132.0 | 137.5 | 131.2 |
| 97.5° | 1.6 | 64.8 | 121.7 | 117.7 | 108.3 |
| 100° | 1.6 | 60.1 | 110.6 | 100.3 | 90.1 |
| 102.5° | 1.6 | 53.7 | 101.1 | 88.5 | 79.8 |
| 105° | 1.6 | 45.8 | 92.4 | 79.8 | 71.9 |
| 107.5° | 1.6 | 36.3 | 83.0 | 72.7 | 66.4 |
| 110° | 1.6 | 26.1 | 74.3 | 67.2 | 62.4 |



TEST NUMBER: P290324

CATALOG NUMBER: 8SSRK-SLC-80-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 1.6 | 15.8 | 67.2 | 62.4 | 58.5 |
| 115° | 1.6 | 5.5 | 60.1 | 56.9 | 52.9 |
| 117.5° | 1.6 | 2.4 | 52.9 | 54.5 | 49.8 |
| 120° | 1.6 | 2.4 | 44.2 | 51.4 | 47.4 |
| 122.5° | 1.6 | 2.4 | 36.3 | 48.2 | 45.8 |
| 125° | 1.6 | 1.6 | 27.7 | 44.2 | 43.5 |
| 127.5° | 1.6 | 1.6 | 19.0 | 38.7 | 40.3 |
| 130° | 1.6 | 1.6 | 9.5 | 31.6 | 35.6 |
| 132.5° | 1.6 | 1.6 | 1.6 | 26.1 | 29.2 |
| 135° | 1.6 | 1.6 | 1.6 | 19.0 | 23.7 |
| 137.5° | 1.6 | 1.6 | 1.6 | 9.5 | 17.4 |
| 140° | 1.6 | 1.6 | 1.6 | 1.6 | 7.1 |
| 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)