

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: P290326

Luminaire Tested: **8SSRK-SLC-80-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290326
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-L940-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

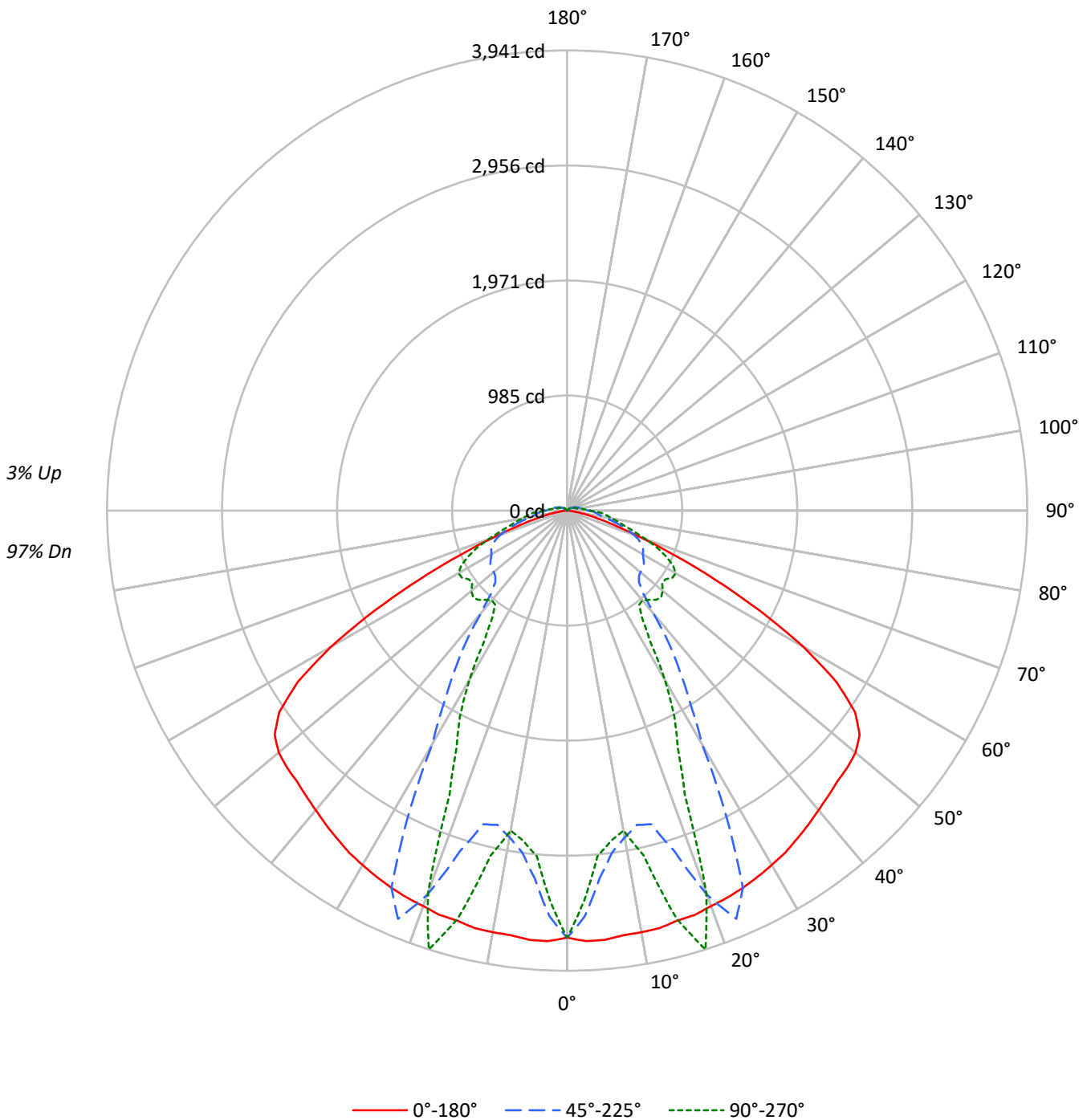
Lumens per Lamp: N/A
Luminaire Lumens: 7691.4 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

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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Luminous Intensity Polar Plot





TEST NUMBER: P290326

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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 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 99 | 99 | 99 | 97 | |
| 1 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 93 | 96 | 93 | 90 | 91 | 89 | 87 | 87 | 85 | 83 | 87 | 85 | 83 | 81 | |
| 2 | 99 | 91 | 84 | 79 | 96 | 89 | 83 | 78 | 85 | 80 | 75 | 81 | 77 | 73 | 77 | 74 | 71 | 77 | 74 | 71 | 69 | |
| 3 | 91 | 81 | 73 | 67 | 88 | 79 | 72 | 66 | 75 | 69 | 64 | 72 | 67 | 63 | 69 | 65 | 61 | 69 | 65 | 61 | 59 | |
| 4 | 84 | 72 | 64 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 65 | 59 | 54 | 62 | 57 | 53 | 62 | 57 | 53 | 51 | |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 50 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 51 | 47 | 57 | 51 | 47 | 45 | |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 43 | 54 | 47 | 43 | 52 | 46 | 42 | 52 | 46 | 42 | 40 | |
| 7 | 67 | 54 | 45 | 40 | 65 | 53 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 48 | 42 | 38 | 36 | |
| 8 | 62 | 49 | 41 | 36 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 44 | 38 | 34 | 44 | 38 | 34 | 32 | |
| 9 | 58 | 46 | 38 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 42 | 36 | 32 | 41 | 35 | 31 | 41 | 35 | 31 | 29 | |
| 10 | 55 | 42 | 35 | 30 | 54 | 42 | 34 | 30 | 40 | 34 | 29 | 39 | 33 | 29 | 38 | 33 | 29 | 38 | 33 | 29 | 27 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 118116 | 118116 | 118116 |
| 5° | 119409 | 82149 | 71392 |
| 10° | 119780 | 62064 | 53502 |
| 15° | 120862 | 52764 | 58330 |
| 20° | 122936 | 59133 | 48754 |
| 25° | 125738 | 54550 | 27849 |
| 30° | 129134 | 32668 | 18864 |
| 35° | 133342 | 22249 | 11547 |
| 40° | 138730 | 14311 | 9709 |
| 45° | 146570 | 10351 | 9871 |
| 50° | 158039 | 9381 | 9310 |
| 55° | 164524 | 8936 | 8610 |
| 60° | 145755 | 8156 | 8747 |
| 65° | 102038 | 7676 | 7484 |
| 70° | 59297 | 6526 | 5628 |
| 75° | 33710 | 4929 | 4003 |
| 80° | 19142 | 3479 | 3096 |
| 85° | 9247 | 2794 | 2535 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 303.9 | 4.0 |
| 10°-20° | 912.6 | 11.9 |
| 20°-30° | 1343.4 | 17.5 |
| 30°-40° | 1312.3 | 17.1 |
| 40°-50° | 1087.9 | 14.1 |
| 50°-60° | 998.8 | 13.0 |
| 60°-70° | 791.5 | 10.3 |
| 70°-80° | 439.5 | 5.7 |
| 80°-90° | 232.8 | 3.0 |
| 90°-100° | 122.4 | 1.6 |
| 100°-110° | 73.7 | 1.0 |
| 110°-120° | 42.1 | 0.5 |
| 120°-130° | 23.2 | 0.3 |
| 130°-140° | 7.3 | 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° | 2559.9 | 33.3 |
| 0°-40° | 3872.2 | 50.3 |
| 0°-60° | 5958.9 | 77.5 |
| 0°-90° | 7422.5 | 96.5 |
| 90°-120° | 238.1 | 3.1 |
| 90°-150° | 268.9 | 3.5 |
| 90°-180° | 269.0 | 3.5 |
| 0°-180° | 7691.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3658 | 3658 | 3658 | 3658 | 3658 | |
| 5° | 3690 | 3483 | 3165 | 3030 | 2973 | 351 |
| 15° | 3636 | 2904 | 2781 | 3405 | 3615 | 1031 |
| 25° | 3563 | 2772 | 3561 | 2428 | 2240 | 1647 |
| 35° | 3432 | 3309 | 1688 | 1206 | 1113 | 2154 |
| 45° | 3276 | 1496 | 871 | 994 | 1081 | 2541 |
| 55° | 3009 | 667 | 803 | 962 | 1027 | 2613 |
| 65° | 1395 | 433 | 713 | 905 | 938 | 1412 |
| 75° | 291 | 264 | 459 | 490 | 511 | 345 |
| 85° | 31 | 130 | 253 | 307 | 320 | 43 |
| 90° | 1 | 94 | 185 | 202 | 200 | 1 |
| 95° | 2 | 75 | 144 | 150 | 143 | 1 |
| 105° | 2 | 50 | 100 | 87 | 78 | 2 |
| 115° | 2 | 6 | 65 | 62 | 58 | 2 |
| 125° | 2 | 2 | 30 | 48 | 47 | 2 |
| 135° | 2 | 2 | 2 | 21 | 26 | 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: P290326

CATALOG NUMBER: 8SSRK-SLC-80-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3657.8 | 3657.8 | 3657.8 | 3657.8 | 3657.8 |
| 2.5° | 3690.5 | 3624.3 | 3477.4 | 3377.8 | 3344.3 |
| 5° | 3690.5 | 3483.4 | 3164.7 | 3029.9 | 2973.2 |
| 7.5° | 3668.1 | 3304.8 | 2950.8 | 2892.4 | 2855.5 |
| 10° | 3666.4 | 3114.1 | 2841.7 | 2792.8 | 2782.5 |
| 12.5° | 3662.1 | 3008.4 | 2757.5 | 2931.1 | 3024.7 |
| 15° | 3635.5 | 2903.6 | 2780.7 | 3405.3 | 3614.9 |
| 17.5° | 3631.2 | 2825.4 | 3062.5 | 3852.8 | 3941.3 |
| 20° | 3604.6 | 2763.6 | 3501.5 | 3796.1 | 3484.3 |
| 22.5° | 3587.4 | 2720.6 | 3784.1 | 3053.9 | 2629.6 |
| 25° | 3563.3 | 2772.2 | 3560.8 | 2427.7 | 2239.5 |
| 27.5° | 3535.8 | 2938.0 | 2951.7 | 2113.3 | 1988.7 |
| 30° | 3504.9 | 3197.4 | 2314.3 | 1847.0 | 1674.3 |
| 32.5° | 3474.0 | 3387.2 | 1969.8 | 1516.2 | 1313.5 |
| 35° | 3431.9 | 3309.1 | 1688.0 | 1206.1 | 1113.3 |
| 37.5° | 3392.4 | 2948.3 | 1431.2 | 1041.2 | 1014.5 |
| 40° | 3348.6 | 2375.3 | 1149.4 | 975.9 | 1003.4 |
| 42.5° | 3311.6 | 1883.0 | 965.6 | 969.0 | 1036.9 |
| 45° | 3276.4 | 1496.5 | 871.1 | 993.9 | 1080.7 |
| 47.5° | 3255.8 | 1189.8 | 833.3 | 1024.0 | 1093.6 |
| 50° | 3224.0 | 953.5 | 819.5 | 1030.0 | 1068.7 |
| 52.5° | 3157.0 | 786.0 | 815.2 | 998.2 | 1024.8 |
| 55° | 3009.3 | 666.6 | 803.2 | 962.1 | 1026.6 |
| 57.5° | 2736.9 | 592.7 | 775.7 | 969.9 | 1068.7 |
| 60° | 2338.3 | 535.2 | 748.2 | 994.8 | 1073.8 |
| 62.5° | 1860.7 | 482.8 | 733.6 | 974.2 | 1023.1 |
| 65° | 1395.1 | 433.0 | 713.0 | 904.6 | 938.1 |
| 67.5° | 976.7 | 390.0 | 666.6 | 817.8 | 835.9 |
| 70° | 664.0 | 348.8 | 609.1 | 707.0 | 714.7 |
| 72.5° | 446.7 | 307.5 | 537.8 | 592.7 | 604.8 |
| 75° | 291.2 | 263.7 | 458.7 | 489.7 | 511.1 |
| 77.5° | 185.6 | 224.2 | 380.6 | 420.1 | 447.6 |
| 80° | 115.1 | 185.6 | 320.4 | 377.1 | 394.3 |
| 82.5° | 64.4 | 154.6 | 277.5 | 336.7 | 346.2 |
| 85° | 30.9 | 129.7 | 252.6 | 306.7 | 319.6 |
| 87.5° | 7.7 | 110.0 | 222.5 | 254.3 | 254.3 |
| 90° | 0.9 | 94.5 | 184.7 | 201.9 | 200.2 |
| 92.5° | 0.9 | 83.3 | 160.6 | 171.8 | 168.4 |
| 95° | 1.7 | 74.7 | 143.5 | 149.5 | 142.6 |
| 97.5° | 1.7 | 70.4 | 132.3 | 128.0 | 117.7 |
| 100° | 1.7 | 65.3 | 120.3 | 109.1 | 97.9 |
| 102.5° | 1.7 | 58.4 | 110.0 | 96.2 | 86.8 |
| 105° | 1.7 | 49.8 | 100.5 | 86.8 | 78.2 |
| 107.5° | 1.7 | 39.5 | 90.2 | 79.0 | 72.2 |
| 110° | 1.7 | 28.3 | 80.8 | 73.0 | 67.9 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 1.7 | 17.2 | 73.0 | 67.9 | 63.6 |
| 115° | 1.7 | 6.0 | 65.3 | 61.9 | 57.6 |
| 117.5° | 1.7 | 2.6 | 57.6 | 59.3 | 54.1 |
| 120° | 1.7 | 2.6 | 48.1 | 55.8 | 51.5 |
| 122.5° | 1.7 | 2.6 | 39.5 | 52.4 | 49.8 |
| 125° | 1.7 | 1.7 | 30.1 | 48.1 | 47.2 |
| 127.5° | 1.7 | 1.7 | 20.6 | 42.1 | 43.8 |
| 130° | 1.7 | 1.7 | 10.3 | 34.4 | 38.7 |
| 132.5° | 1.7 | 1.7 | 1.7 | 28.3 | 31.8 |
| 135° | 1.7 | 1.7 | 1.7 | 20.6 | 25.8 |
| 137.5° | 1.7 | 1.7 | 1.7 | 10.3 | 18.9 |
| 140° | 1.7 | 1.7 | 1.7 | 1.7 | 7.7 |
| 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)