

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: P290046

Luminaire Tested: **8SSRK-RB-50-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-RB-50-L940-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4310.3 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.65 / 1.6
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

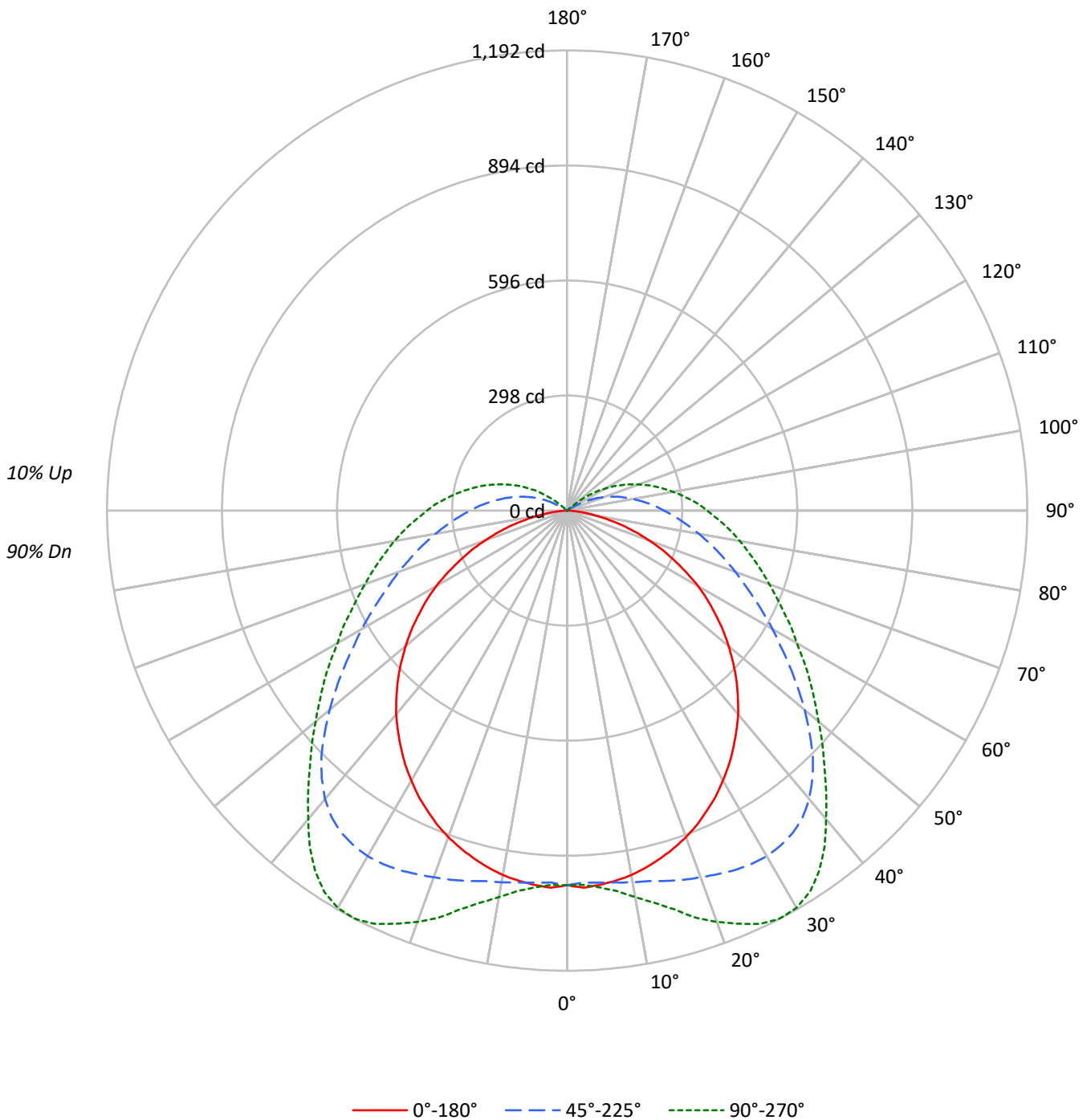
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 98 | 93 | 88 | 100 | 95 | 90 | 86 | 89 | 85 | 81 | 83 | 80 | 77 | 78 | 75 | 73 | 70 |
| 2 | 94 | 84 | 77 | 70 | 90 | 82 | 74 | 68 | 76 | 70 | 65 | 71 | 67 | 62 | 67 | 63 | 59 | 57 |
| 3 | 85 | 73 | 64 | 57 | 81 | 71 | 63 | 56 | 66 | 60 | 54 | 62 | 56 | 52 | 58 | 54 | 49 | 47 |
| 4 | 77 | 64 | 55 | 48 | 74 | 62 | 54 | 47 | 59 | 51 | 45 | 55 | 49 | 44 | 52 | 46 | 42 | 39 |
| 5 | 71 | 57 | 48 | 41 | 68 | 56 | 47 | 40 | 52 | 45 | 39 | 49 | 43 | 37 | 46 | 41 | 36 | 34 |
| 6 | 65 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 47 | 39 | 34 | 44 | 38 | 32 | 42 | 36 | 31 | 29 |
| 7 | 60 | 46 | 37 | 31 | 58 | 45 | 36 | 30 | 43 | 35 | 29 | 40 | 34 | 29 | 38 | 32 | 28 | 25 |
| 8 | 56 | 42 | 33 | 27 | 54 | 41 | 33 | 27 | 39 | 31 | 26 | 37 | 30 | 25 | 35 | 29 | 25 | 22 |
| 9 | 52 | 38 | 30 | 24 | 50 | 37 | 29 | 24 | 36 | 28 | 23 | 34 | 27 | 23 | 32 | 26 | 22 | 20 |
| 10 | 49 | 35 | 27 | 22 | 47 | 34 | 27 | 22 | 33 | 26 | 21 | 31 | 25 | 20 | 30 | 24 | 20 | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 31342 | 31342 | 31342 |
| 5° | 31489 | 25114 | 23532 |
| 10° | 31317 | 21358 | 19547 |
| 15° | 31018 | 18844 | 17248 |
| 20° | 30695 | 17070 | 15863 |
| 25° | 30248 | 15742 | 14689 |
| 30° | 29733 | 14593 | 13385 |
| 35° | 29164 | 13434 | 11807 |
| 40° | 28561 | 12143 | 10095 |
| 45° | 27731 | 10694 | 8607 |
| 50° | 26750 | 9190 | 7408 |
| 55° | 25663 | 7832 | 6440 |
| 60° | 24404 | 6701 | 5591 |
| 65° | 22403 | 5739 | 4928 |
| 70° | 20254 | 4967 | 4388 |
| 75° | 17121 | 4319 | 3942 |
| 80° | 12872 | 3763 | 3570 |
| 85° | 7032 | 3272 | 3229 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 93.3 | 2.2 |
| 10°-20° | 283.9 | 6.6 |
| 20°-30° | 472.7 | 11.0 |
| 30°-40° | 611.3 | 14.2 |
| 40°-50° | 645.7 | 15.0 |
| 50°-60° | 595.3 | 13.8 |
| 60°-70° | 500.3 | 11.6 |
| 70°-80° | 392.0 | 9.1 |
| 80°-90° | 288.4 | 6.7 |
| 90°-100° | 205.5 | 4.8 |
| 100°-110° | 132.0 | 3.1 |
| 110°-120° | 69.3 | 1.6 |
| 120°-130° | 20.1 | 0.5 |
| 130°-140° | 0.5 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 850.0 | 19.7 |
| 0°-40° | 1461.3 | 33.9 |
| 0°-60° | 2702.3 | 62.7 |
| 0°-90° | 3882.9 | 90.1 |
| 90°-120° | 406.8 | 9.4 |
| 90°-150° | 427.4 | 9.9 |
| 90°-180° | 427.0 | 9.9 |
| 0°-180° | 4310.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|------|-------|------|------|
| 0° | 971 | 971 | 971 | 971 | 971 | |
| 5° | 973 | 973 | 968 | 980 | 980 | 92 |
| 15° | 933 | 951 | 993 | 1052 | 1069 | 263 |
| 25° | 857 | 905 | 1028 | 1145 | 1181 | 395 |
| 35° | 751 | 834 | 1019 | 1123 | 1138 | 470 |
| 45° | 620 | 730 | 900 | 939 | 942 | 478 |
| 55° | 469 | 583 | 704 | 752 | 768 | 420 |
| 65° | 306 | 419 | 533 | 598 | 618 | 305 |
| 75° | 148 | 273 | 402 | 478 | 503 | 157 |
| 85° | 24 | 159 | 296 | 380 | 407 | 31 |
| 90° | 0 | 117 | 251 | 336 | 363 | 1 |
| 95° | 2 | 85 | 211 | 295 | 321 | 1 |
| 105° | 2 | 28 | 138 | 214 | 239 | 2 |
| 115° | 1 | 2 | 66 | 133 | 156 | 1 |
| 125° | 1 | 0 | 0 | 48 | 71 | 1 |
| 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 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: P290046

CATALOG NUMBER: 8SSRK-RB-50-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|--------|--------|--------|
| 0° | 970.6 | 970.6 | 970.6 | 970.6 | 970.6 |
| 2.5° | 977.9 | 973.7 | 964.3 | 972.7 | 970.6 |
| 5° | 973.2 | 972.7 | 967.5 | 980.0 | 980.0 |
| 7.5° | 966.9 | 969.0 | 971.6 | 992.6 | 994.1 |
| 10° | 958.6 | 964.9 | 977.9 | 1009.8 | 1016.6 |
| 12.5° | 946.6 | 958.1 | 983.1 | 1029.1 | 1040.1 |
| 15° | 933.0 | 951.3 | 993.1 | 1052.1 | 1068.9 |
| 17.5° | 917.3 | 941.3 | 1003.0 | 1080.4 | 1105.5 |
| 20° | 900.0 | 931.4 | 1010.8 | 1106.0 | 1133.7 |
| 22.5° | 880.2 | 919.4 | 1019.2 | 1126.9 | 1158.2 |
| 25° | 857.2 | 905.3 | 1027.6 | 1145.2 | 1181.2 |
| 27.5° | 834.2 | 890.6 | 1032.3 | 1156.7 | 1191.7 |
| 30° | 807.0 | 874.4 | 1033.8 | 1158.2 | 1188.0 |
| 32.5° | 780.4 | 856.7 | 1029.1 | 1147.3 | 1170.8 |
| 35° | 750.6 | 834.2 | 1019.2 | 1123.2 | 1138.4 |
| 37.5° | 719.7 | 810.1 | 1002.0 | 1086.1 | 1095.5 |
| 40° | 689.4 | 787.7 | 975.3 | 1039.1 | 1043.3 |
| 42.5° | 654.4 | 758.9 | 940.8 | 989.4 | 993.6 |
| 45° | 619.9 | 730.2 | 900.0 | 938.7 | 942.4 |
| 47.5° | 583.3 | 697.2 | 852.0 | 888.0 | 896.9 |
| 50° | 545.7 | 661.2 | 802.8 | 841.0 | 850.4 |
| 52.5° | 509.1 | 624.1 | 753.2 | 796.6 | 807.5 |
| 55° | 469.4 | 583.3 | 704.0 | 752.1 | 767.8 |
| 57.5° | 431.2 | 543.1 | 656.5 | 709.8 | 727.0 |
| 60° | 391.5 | 501.8 | 614.7 | 670.6 | 686.3 |
| 62.5° | 349.7 | 460.0 | 571.8 | 634.5 | 654.4 |
| 65° | 306.3 | 419.2 | 533.1 | 598.5 | 617.8 |
| 67.5° | 268.1 | 380.0 | 496.0 | 565.0 | 587.0 |
| 70° | 226.8 | 342.4 | 463.6 | 535.2 | 557.2 |
| 72.5° | 186.6 | 307.3 | 431.2 | 506.5 | 530.0 |
| 75° | 147.9 | 272.8 | 401.9 | 478.2 | 503.3 |
| 77.5° | 110.3 | 241.0 | 373.2 | 452.6 | 477.7 |
| 80° | 77.4 | 211.7 | 346.5 | 428.1 | 454.7 |
| 82.5° | 48.1 | 185.5 | 320.4 | 404.0 | 431.2 |
| 85° | 23.5 | 159.4 | 295.8 | 380.0 | 407.2 |
| 87.5° | 6.8 | 136.4 | 272.8 | 357.0 | 383.6 |
| 90° | 0.5 | 117.1 | 250.9 | 336.1 | 362.7 |
| 92.5° | 1.0 | 99.8 | 232.1 | 315.2 | 343.4 |
| 95° | 1.6 | 84.7 | 211.2 | 294.8 | 320.9 |
| 97.5° | 1.6 | 70.0 | 191.8 | 274.4 | 300.0 |
| 100° | 1.6 | 55.9 | 173.0 | 253.0 | 279.1 |
| 102.5° | 1.6 | 42.3 | 154.7 | 233.1 | 258.2 |
| 105° | 1.6 | 27.7 | 137.5 | 213.8 | 238.9 |
| 107.5° | 1.6 | 12.0 | 119.2 | 192.9 | 218.0 |
| 110° | 1.6 | 2.6 | 101.4 | 173.5 | 198.1 |



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CATALOG NUMBER: 8SSRK-RB-50-L940-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 1.6 | 1.6 | 84.7 | 153.1 | 177.7 |
| 115° | 1.0 | 1.6 | 65.9 | 132.8 | 155.8 |
| 117.5° | 1.0 | 1.0 | 44.9 | 112.9 | 136.4 |
| 120° | 1.0 | 1.0 | 23.5 | 93.0 | 114.5 |
| 122.5° | 1.0 | 0.5 | 4.7 | 71.1 | 94.6 |
| 125° | 1.0 | 0.5 | 0.0 | 47.6 | 70.6 |
| 127.5° | 1.0 | 0.5 | 0.0 | 24.6 | 48.1 |
| 130° | 0.5 | 0.5 | 0.0 | 3.7 | 23.0 |
| 132.5° | 0.5 | 0.5 | 0.0 | 0.0 | 1.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)