

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: P289951

Luminaire Tested: **8SSRK-LW-40-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289951  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-LW-40-L950-CD1-U  
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3344.9 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

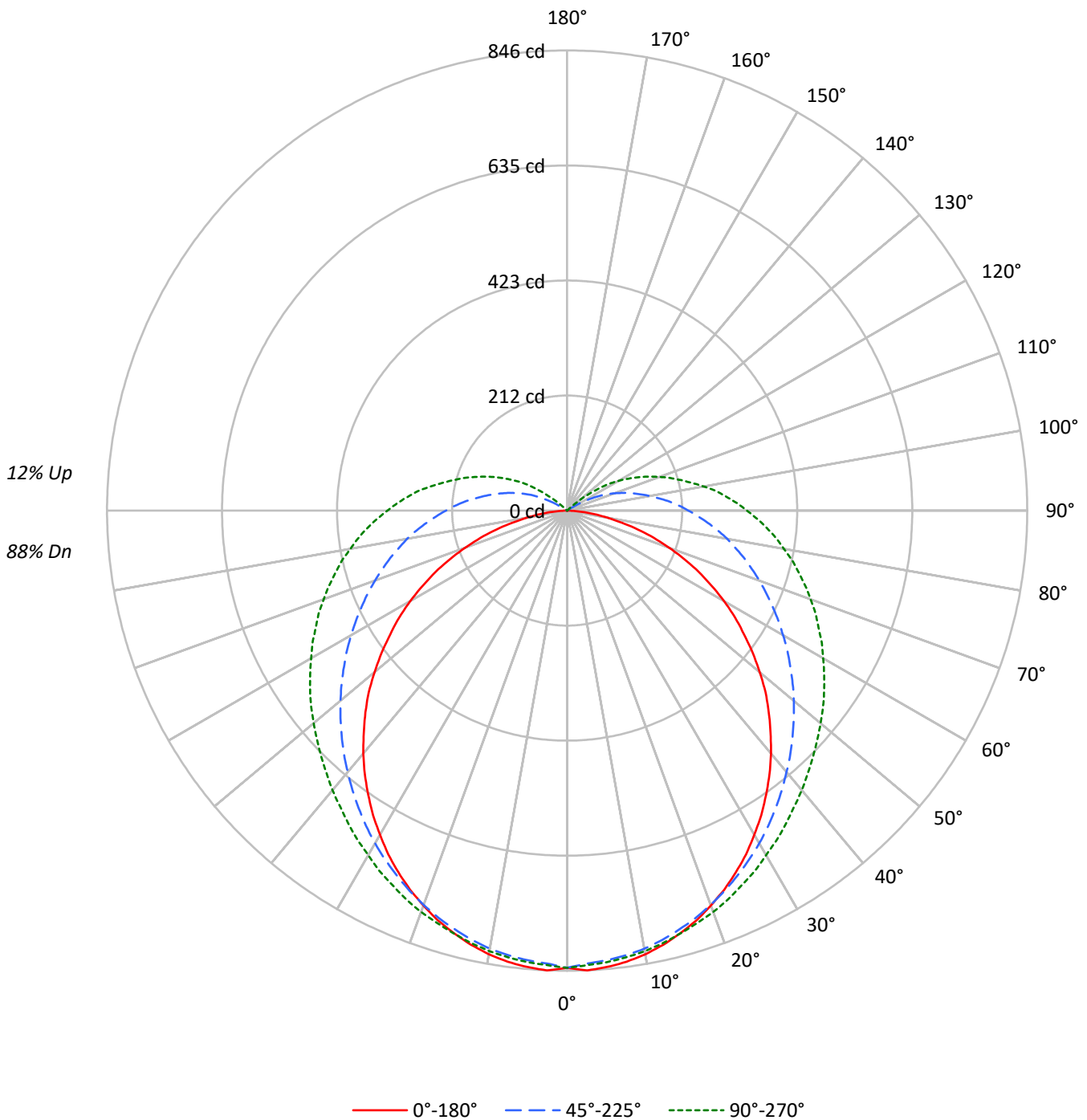
Input Watts (W): 27.0151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 91 | 91 | 91 | 88 |    |    |    |   |
| 1   | 103 | 97  | 92  | 87  | 99  | 94  | 89  | 84  | 87  | 83  | 79  | 81 | 78 | 75 | 75 | 73 | 71 | 67 |    |    |    |   |
| 2   | 93  | 83  | 75  | 68  | 89  | 80  | 73  | 67  | 74  | 68  | 63  | 69 | 64 | 60 | 65 | 61 | 57 | 54 |    |    |    |   |
| 3   | 84  | 72  | 63  | 56  | 80  | 70  | 61  | 54  | 65  | 58  | 52  | 60 | 54 | 50 | 56 | 51 | 47 | 44 |    |    |    |   |
| 4   | 76  | 63  | 54  | 47  | 73  | 61  | 52  | 46  | 57  | 50  | 44  | 53 | 47 | 42 | 50 | 44 | 40 | 37 |    |    |    |   |
| 5   | 70  | 56  | 47  | 40  | 67  | 54  | 46  | 39  | 51  | 43  | 37  | 48 | 41 | 36 | 45 | 39 | 34 | 32 |    |    |    |   |
| 6   | 65  | 50  | 41  | 34  | 62  | 49  | 40  | 34  | 46  | 38  | 32  | 43 | 36 | 31 | 40 | 35 | 30 | 28 |    |    |    |   |
| 7   | 60  | 46  | 36  | 30  | 57  | 44  | 36  | 30  | 42  | 34  | 28  | 39 | 32 | 27 | 37 | 31 | 26 | 24 |    |    |    |   |
| 8   | 55  | 41  | 33  | 27  | 53  | 40  | 32  | 26  | 38  | 31  | 25  | 36 | 29 | 24 | 34 | 28 | 24 | 21 |    |    |    |   |
| 9   | 52  | 38  | 30  | 24  | 50  | 37  | 29  | 23  | 35  | 28  | 23  | 33 | 27 | 22 | 31 | 25 | 21 | 19 |    |    |    |   |
| 10  | 49  | 35  | 27  | 21  | 47  | 34  | 26  | 21  | 32  | 25  | 21  | 31 | 24 | 20 | 29 | 23 | 19 | 17 |    |    |    |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 27144 | 27144 | 27144 |
| 5°  | 27253 | 21545 | 20014 |
| 10° | 27057 | 17866 | 15813 |
| 15° | 26739 | 15127 | 12986 |
| 20° | 26346 | 13031 | 10988 |
| 25° | 25901 | 11346 | 9447  |
| 30° | 25349 | 9974  | 8241  |
| 35° | 24773 | 8806  | 7278  |
| 40° | 24162 | 7811  | 6495  |
| 45° | 23459 | 6967  | 5840  |
| 50° | 22652 | 6226  | 5300  |
| 55° | 21710 | 5574  | 4839  |
| 60° | 20757 | 4998  | 4427  |
| 65° | 19536 | 4484  | 4067  |
| 70° | 17852 | 4027  | 3750  |
| 75° | 15617 | 3616  | 3453  |
| 80° | 12423 | 3246  | 3177  |
| 85° | 8080  | 2871  | 2925  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 79.4   | 2.4       |
| 10°-20°   | 226.6  | 6.8       |
| 20°-30°   | 343.6  | 10.3      |
| 30°-40°   | 419.3  | 12.5      |
| 40°-50°   | 451.6  | 13.5      |
| 50°-60°   | 443.5  | 13.3      |
| 60°-70°   | 400.8  | 12.0      |
| 70°-80°   | 333.6  | 10.0      |
| 80°-90°   | 255.9  | 7.7       |
| 90°-100°  | 185.3  | 5.5       |
| 100°-110° | 119.7  | 3.6       |
| 110°-120° | 64.5   | 1.9       |
| 120°-130° | 20.4   | 0.6       |
| 130°-140° | 0.8    | 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°    | 649.5  | 19.4      |
| 0°-40°    | 1068.8 | 32.0      |
| 0°-60°    | 1963.9 | 58.7      |
| 0°-90°    | 2954.3 | 88.3      |
| 90°-120°  | 369.5  | 11.0      |
| 90°-150°  | 390.7  | 11.7      |
| 90°-180°  | 391.0  | 11.7      |
| 0°-180°   | 3344.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 841 | 841   | 841 | 841   | 841 |      |
| 5°   | 842 | 839   | 830 | 836   | 834 | 80   |
| 15°  | 804 | 802   | 797 | 806   | 805 | 227  |
| 25°  | 734 | 735   | 741 | 757   | 760 | 338  |
| 35°  | 638 | 646   | 668 | 695   | 702 | 399  |
| 45°  | 524 | 544   | 586 | 625   | 639 | 404  |
| 55°  | 397 | 436   | 501 | 557   | 577 | 356  |
| 65°  | 267 | 325   | 416 | 486   | 510 | 264  |
| 75°  | 135 | 224   | 336 | 414   | 441 | 143  |
| 85°  | 27  | 137   | 260 | 340   | 369 | 32   |
| 90°  | 1   | 103   | 223 | 303   | 330 | 2    |
| 95°  | 2   | 75    | 189 | 268   | 294 | 1    |
| 105° | 2   | 26    | 123 | 192   | 216 | 2    |
| 115° | 1   | 1     | 62  | 122   | 146 | 1    |
| 125° | 1   | 0     | 0   | 49    | 70  | 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    |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 840.6 | 840.6 | 840.6 | 840.6 | 840.6 |
| 2.5°   | 846.3 | 842.8 | 833.5 | 839.2 | 836.6 |
| 5°     | 842.3 | 839.2 | 830.0 | 836.2 | 833.5 |
| 7.5°   | 836.6 | 833.5 | 824.7 | 830.8 | 828.6 |
| 10°    | 828.2 | 825.1 | 818.0 | 824.2 | 822.4 |
| 12.5°  | 817.6 | 815.4 | 808.7 | 816.3 | 814.5 |
| 15°    | 804.3 | 802.5 | 797.2 | 806.1 | 804.8 |
| 17.5°  | 790.2 | 788.4 | 785.3 | 794.6 | 795.0 |
| 20°    | 772.5 | 772.0 | 771.6 | 783.5 | 785.3 |
| 22.5°  | 754.4 | 754.8 | 756.6 | 771.2 | 773.8 |
| 25°    | 734.0 | 734.9 | 740.6 | 756.6 | 759.7 |
| 27.5°  | 712.3 | 715.4 | 723.8 | 742.4 | 747.3 |
| 30°    | 688.0 | 693.3 | 706.6 | 726.1 | 731.4 |
| 32.5°  | 664.1 | 669.9 | 687.6 | 710.6 | 717.7 |
| 35°    | 637.6 | 646.0 | 668.1 | 694.7 | 701.7 |
| 37.5°  | 611.1 | 620.8 | 648.2 | 677.0 | 685.8 |
| 40°    | 583.2 | 596.1 | 627.4 | 659.7 | 671.2 |
| 42.5°  | 553.2 | 571.3 | 607.5 | 642.0 | 654.9 |
| 45°    | 524.4 | 544.3 | 586.3 | 624.8 | 639.4 |
| 47.5°  | 494.8 | 518.7 | 565.1 | 608.0 | 623.5 |
| 50°    | 462.1 | 490.8 | 543.9 | 591.2 | 608.4 |
| 52.5°  | 430.2 | 464.3 | 522.7 | 573.9 | 593.0 |
| 55°    | 397.1 | 436.4 | 501.0 | 556.7 | 577.0 |
| 57.5°  | 366.1 | 408.1 | 480.2 | 538.6 | 560.2 |
| 60°    | 333.0 | 380.7 | 458.5 | 521.8 | 543.4 |
| 62.5°  | 299.4 | 353.3 | 437.3 | 503.6 | 528.0 |
| 65°    | 267.1 | 325.0 | 416.5 | 486.4 | 509.8 |
| 67.5°  | 232.6 | 299.4 | 396.2 | 467.8 | 494.4 |
| 70°    | 199.9 | 272.8 | 375.8 | 450.1 | 476.2 |
| 72.5°  | 167.1 | 247.2 | 356.0 | 432.4 | 459.0 |
| 75°    | 134.9 | 223.7 | 336.5 | 414.3 | 440.8 |
| 77.5°  | 102.6 | 199.0 | 316.6 | 396.2 | 424.0 |
| 80°    | 74.7  | 177.3 | 298.9 | 377.6 | 404.6 |
| 82.5°  | 50.9  | 157.0 | 279.0 | 359.9 | 387.3 |
| 85°    | 27.0  | 137.1 | 259.6 | 340.5 | 368.8 |
| 87.5°  | 8.0   | 119.4 | 240.5 | 321.5 | 349.8 |
| 90°    | 0.9   | 103.0 | 222.9 | 302.9 | 330.3 |
| 92.5°  | 1.3   | 88.9  | 206.1 | 286.1 | 312.6 |
| 95°    | 1.8   | 74.7  | 188.8 | 267.5 | 293.6 |
| 97.5°  | 1.8   | 62.3  | 171.1 | 248.5 | 276.4 |
| 100°   | 1.8   | 50.4  | 154.3 | 229.0 | 254.7 |
| 102.5° | 1.8   | 39.4  | 138.4 | 209.6 | 234.8 |
| 105°   | 1.8   | 26.5  | 122.9 | 192.3 | 216.2 |
| 107.5° | 1.8   | 13.3  | 107.9 | 175.5 | 199.0 |
| 110°   | 1.8   | 2.7   | 92.9  | 158.3 | 180.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°   |
|--------|-----|-------|------|-------|-------|
| 112.5° | 1.3 | 1.8   | 78.3 | 140.2 | 163.2 |
| 115°   | 1.3 | 1.3   | 61.9 | 122.5 | 145.5 |
| 117.5° | 1.3 | 1.3   | 44.2 | 106.1 | 126.9 |
| 120°   | 1.3 | 0.9   | 25.6 | 88.9  | 109.7 |
| 122.5° | 0.9 | 0.9   | 8.4  | 69.0  | 91.5  |
| 125°   | 0.9 | 0.4   | 0.4  | 49.1  | 69.9  |
| 127.5° | 0.9 | 0.4   | 0.0  | 27.4  | 47.3  |
| 130°   | 0.9 | 0.4   | 0.0  | 8.0   | 27.0  |
| 132.5° | 0.9 | 0.4   | 0.0  | 0.0   | 5.7   |
| 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)