

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: P290013

Luminaire Tested: **4SSRK-RB-40-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290013
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: 4SSRK-RB-40-L935-CD1-U
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3364.9 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.65 / 1.6
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

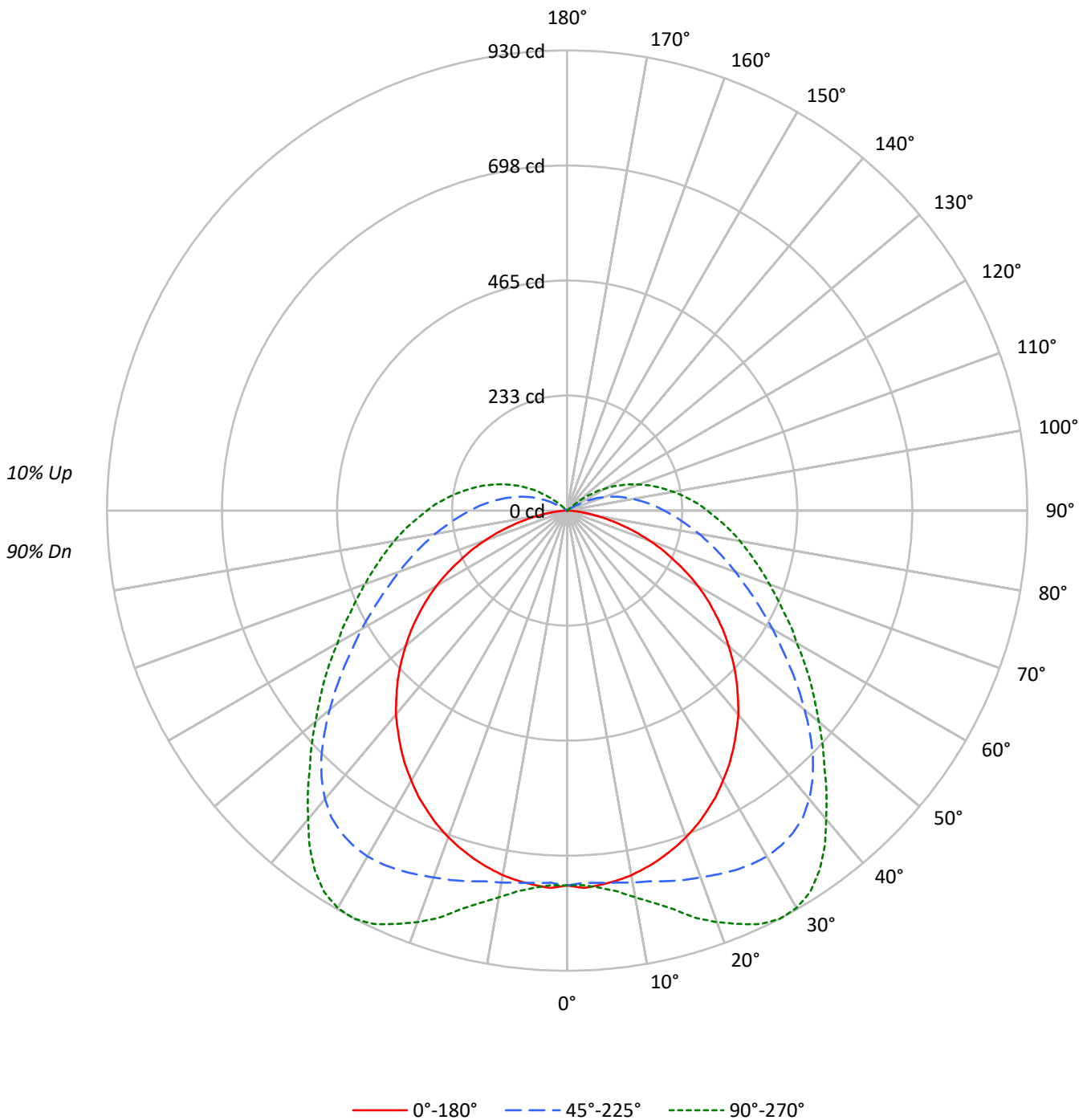
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P290013

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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 | 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° | 48935 | 48935 | 48935 |
| 5° | 49072 | 39172 | 36743 |
| 10° | 48715 | 33288 | 30519 |
| 15° | 48157 | 29357 | 26928 |
| 20° | 47567 | 26582 | 24767 |
| 25° | 46778 | 24506 | 22933 |
| 30° | 45878 | 22713 | 20898 |
| 35° | 44884 | 20904 | 18435 |
| 40° | 43841 | 18891 | 15761 |
| 45° | 42429 | 16634 | 13439 |
| 50° | 40777 | 14291 | 11567 |
| 55° | 38938 | 12178 | 10054 |
| 60° | 36816 | 10416 | 8728 |
| 65° | 33541 | 8922 | 7695 |
| 70° | 30006 | 7720 | 6851 |
| 75° | 24942 | 6712 | 6155 |
| 80° | 18170 | 5846 | 5574 |
| 85° | 9236 | 5082 | 5042 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.9 | 2.2 |
| 10°-20° | 221.7 | 6.6 |
| 20°-30° | 369.0 | 11.0 |
| 30°-40° | 477.3 | 14.2 |
| 40°-50° | 504.1 | 15.0 |
| 50°-60° | 464.7 | 13.8 |
| 60°-70° | 390.5 | 11.6 |
| 70°-80° | 306.0 | 9.1 |
| 80°-90° | 225.1 | 6.7 |
| 90°-100° | 160.4 | 4.8 |
| 100°-110° | 103.1 | 3.1 |
| 110°-120° | 54.1 | 1.6 |
| 120°-130° | 15.7 | 0.5 |
| 130°-140° | 0.4 | 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° | 663.5 | 19.7 |
| 0°-40° | 1140.8 | 33.9 |
| 0°-60° | 2109.6 | 62.7 |
| 0°-90° | 3031.3 | 90.1 |
| 90°-120° | 317.5 | 9.4 |
| 90°-150° | 333.6 | 9.9 |
| 90°-180° | 334.0 | 9.9 |
| 0°-180° | 3364.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 758 | 758 | 758 | 758 | 758 | |
| 5° | 760 | 759 | 755 | 765 | 765 | 72 |
| 15° | 728 | 743 | 775 | 821 | 834 | 205 |
| 25° | 669 | 707 | 802 | 894 | 922 | 308 |
| 35° | 586 | 651 | 796 | 877 | 889 | 367 |
| 45° | 484 | 570 | 703 | 733 | 736 | 373 |
| 55° | 366 | 455 | 550 | 587 | 599 | 328 |
| 65° | 239 | 327 | 416 | 467 | 482 | 238 |
| 75° | 116 | 213 | 314 | 373 | 393 | 123 |
| 85° | 18 | 124 | 231 | 297 | 318 | 24 |
| 90° | 0 | 91 | 196 | 262 | 283 | 1 |
| 95° | 1 | 66 | 165 | 230 | 250 | 1 |
| 105° | 1 | 22 | 107 | 167 | 186 | 1 |
| 115° | 1 | 1 | 51 | 104 | 122 | 1 |
| 125° | 1 | 0 | 0 | 37 | 55 | 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: P290013

CATALOG NUMBER: 4SSRK-RB-40-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 757.7 | 757.7 | 757.7 | 757.7 | 757.7 |
| 2.5° | 763.4 | 760.2 | 752.8 | 759.3 | 757.7 |
| 5° | 759.7 | 759.3 | 755.3 | 765.1 | 765.1 |
| 7.5° | 754.9 | 756.5 | 758.5 | 774.8 | 776.1 |
| 10° | 748.3 | 753.2 | 763.4 | 788.3 | 793.6 |
| 12.5° | 738.9 | 747.9 | 767.5 | 803.4 | 812.0 |
| 15° | 728.3 | 742.6 | 775.3 | 821.4 | 834.4 |
| 17.5° | 716.1 | 734.9 | 783.0 | 843.4 | 863.0 |
| 20° | 702.6 | 727.1 | 789.1 | 863.4 | 885.0 |
| 22.5° | 687.1 | 717.7 | 795.7 | 879.7 | 904.2 |
| 25° | 669.2 | 706.7 | 802.2 | 894.0 | 922.1 |
| 27.5° | 651.2 | 695.3 | 805.9 | 903.0 | 930.3 |
| 30° | 630.0 | 682.6 | 807.1 | 904.2 | 927.4 |
| 32.5° | 609.2 | 668.8 | 803.4 | 895.6 | 914.0 |
| 35° | 585.9 | 651.2 | 795.7 | 876.9 | 888.7 |
| 37.5° | 561.9 | 632.4 | 782.2 | 847.9 | 855.2 |
| 40° | 538.2 | 614.9 | 761.4 | 811.2 | 814.4 |
| 42.5° | 510.9 | 592.5 | 734.5 | 772.4 | 775.7 |
| 45° | 483.9 | 570.0 | 702.6 | 732.8 | 735.7 |
| 47.5° | 455.4 | 544.3 | 665.1 | 693.2 | 700.2 |
| 50° | 426.0 | 516.2 | 626.7 | 656.5 | 663.9 |
| 52.5° | 397.4 | 487.2 | 588.0 | 621.8 | 630.4 |
| 55° | 366.4 | 455.4 | 549.6 | 587.2 | 599.4 |
| 57.5° | 336.6 | 423.9 | 512.5 | 554.1 | 567.6 |
| 60° | 305.6 | 391.7 | 479.8 | 523.5 | 535.7 |
| 62.5° | 273.0 | 359.1 | 446.4 | 495.3 | 510.9 |
| 65° | 239.1 | 327.2 | 416.2 | 467.2 | 482.3 |
| 67.5° | 209.3 | 296.6 | 387.2 | 441.1 | 458.2 |
| 70° | 177.1 | 267.3 | 361.9 | 417.8 | 435.0 |
| 72.5° | 145.7 | 239.9 | 336.6 | 395.4 | 413.7 |
| 75° | 115.5 | 213.0 | 313.8 | 373.3 | 392.9 |
| 77.5° | 86.1 | 188.1 | 291.3 | 353.4 | 372.9 |
| 80° | 60.4 | 165.3 | 270.5 | 334.2 | 355.0 |
| 82.5° | 37.5 | 144.9 | 250.1 | 315.4 | 336.6 |
| 85° | 18.4 | 124.4 | 230.9 | 296.6 | 317.9 |
| 87.5° | 5.3 | 106.5 | 213.0 | 278.7 | 299.5 |
| 90° | 0.4 | 91.4 | 195.9 | 262.4 | 283.2 |
| 92.5° | 0.8 | 77.9 | 181.2 | 246.0 | 268.1 |
| 95° | 1.2 | 66.1 | 164.8 | 230.1 | 250.5 |
| 97.5° | 1.2 | 54.7 | 149.7 | 214.2 | 234.2 |
| 100° | 1.2 | 43.7 | 135.1 | 197.5 | 217.9 |
| 102.5° | 1.2 | 33.1 | 120.8 | 182.0 | 201.6 |
| 105° | 1.2 | 21.6 | 107.3 | 166.9 | 186.5 |
| 107.5° | 1.2 | 9.4 | 93.0 | 150.6 | 170.1 |
| 110° | 1.2 | 2.0 | 79.2 | 135.5 | 154.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 1.2 | 1.2 | 66.1 | 119.6 | 138.7 |
| 115° | 0.8 | 1.2 | 51.4 | 103.6 | 121.6 |
| 117.5° | 0.8 | 0.8 | 35.1 | 88.1 | 106.5 |
| 120° | 0.8 | 0.8 | 18.4 | 72.6 | 89.4 |
| 122.5° | 0.8 | 0.4 | 3.7 | 55.5 | 73.9 |
| 125° | 0.8 | 0.4 | 0.0 | 37.1 | 55.1 |
| 127.5° | 0.8 | 0.4 | 0.0 | 19.2 | 37.5 |
| 130° | 0.4 | 0.4 | 0.0 | 2.9 | 18.0 |
| 132.5° | 0.4 | 0.4 | 0.0 | 0.0 | 0.8 |
| 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)