

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: P289725

Luminaire Tested: **8SSRK-12-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289725  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-12-L935-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH NO LENS AND 90 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10398.9 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

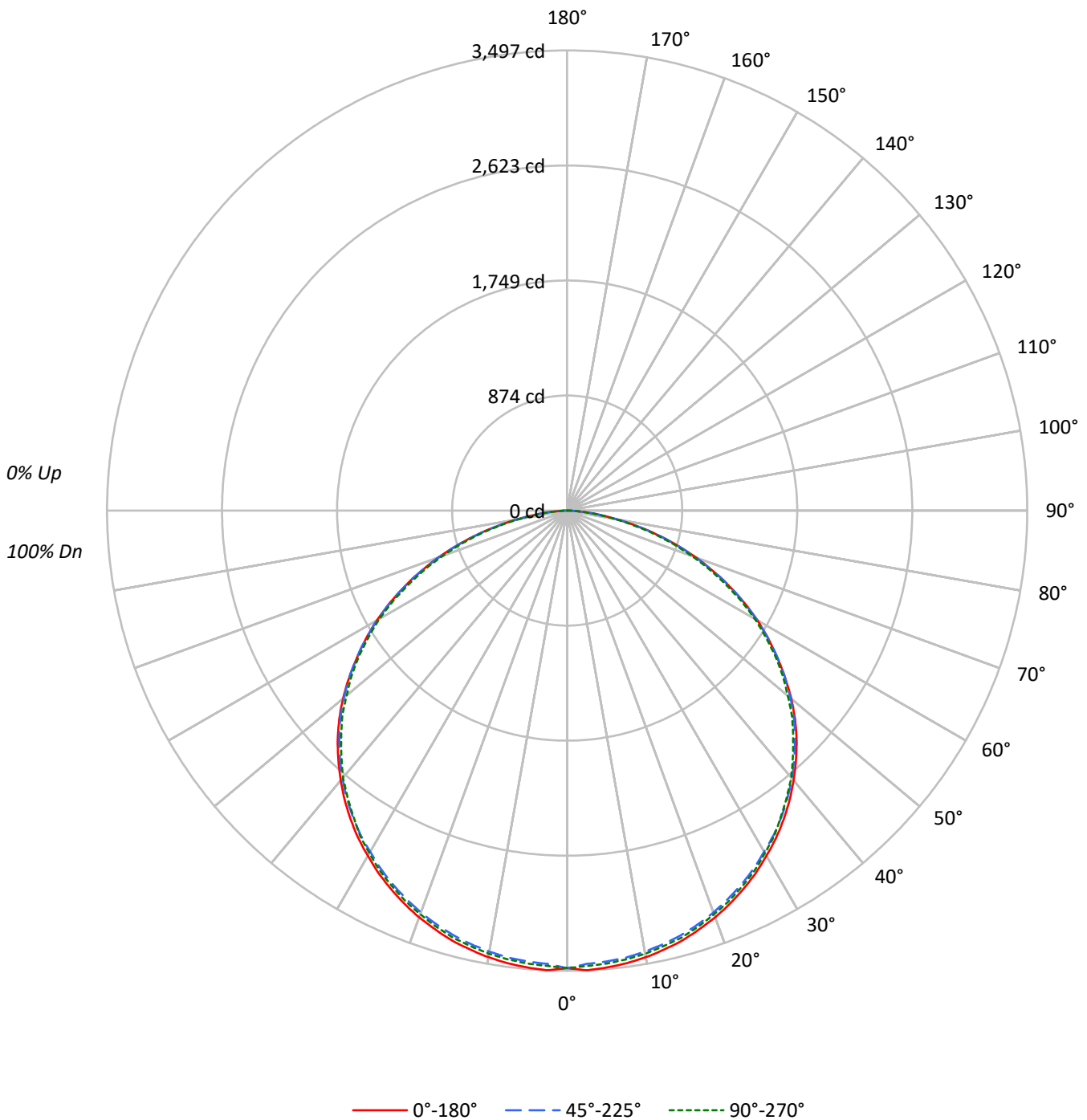
Input Watts (W): 80.8951  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 50 | 30 | 10  | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  | 93  | 91  | 88  | 90  | 88  | 86  | 84  |    |    |    |    | 84  |   |  |   |
| 2   | 99  | 90  | 83  | 78  | 96  | 88  | 82  | 77  | 85  | 79  | 75  | 81  | 77  | 73  | 78  | 75  | 71  | 69  |    |    |    |    | 69  |   |  |   |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 64  | 74  | 68  | 62  | 72  | 66  | 61  | 69  | 64  | 60  | 58  |    |    |    |    | 58  |   |  |   |
| 4   | 82  | 70  | 61  | 54  | 80  | 68  | 60  | 54  | 66  | 59  | 53  | 64  | 57  | 52  | 61  | 56  | 51  | 49  |    |    |    |    | 49  |   |  |   |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 42  |    |    |    |    | 42  |   |  |   |
| 6   | 69  | 56  | 47  | 40  | 68  | 55  | 46  | 40  | 53  | 46  | 40  | 51  | 45  | 39  | 50  | 44  | 39  | 37  |    |    |    |    | 37  |   |  |   |
| 7   | 64  | 51  | 42  | 36  | 63  | 50  | 41  | 35  | 48  | 41  | 35  | 47  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |    |    | 33  |   |  |   |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 29  |    |    |    |    | 29  |   |  |   |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 41  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |    |    | 26  |   |  |   |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  | 37  | 30  | 25  | 36  | 30  | 25  | 23  |    |    |    |    | 23  |   |  |   |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 112261 | 112261 | 112261 |
| 5°  | 112783 | 89295  | 82956  |
| 10° | 112606 | 74332  | 65748  |
| 15° | 112461 | 63386  | 54198  |
| 20° | 112176 | 54889  | 45687  |
| 25° | 111909 | 48023  | 39167  |
| 30° | 111626 | 42266  | 33865  |
| 35° | 111409 | 37433  | 29396  |
| 40° | 110886 | 33082  | 25633  |
| 45° | 110330 | 29102  | 22181  |
| 50° | 109020 | 25368  | 19055  |
| 55° | 106654 | 21729  | 16199  |
| 60° | 104010 | 18190  | 13415  |
| 65° | 99551  | 14667  | 10594  |
| 70° | 93178  | 11082  | 7911   |
| 75° | 81891  | 7577   | 5353   |
| 80° | 64811  | 4232   | 2889   |
| 85° | 41715  | 1530   | 952    |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 329.5   | 3.2       |
| 10°-20°   | 949.2   | 9.1       |
| 20°-30°   | 1454.7  | 14.0      |
| 30°-40°   | 1783.2  | 17.1      |
| 40°-50°   | 1889.1  | 18.2      |
| 50°-60°   | 1741.8  | 16.8      |
| 60°-70°   | 1338.6  | 12.9      |
| 70°-80°   | 741.9   | 7.1       |
| 80°-90°   | 170.7   | 1.6       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 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°    | 2733.5  | 26.3      |
| 0°-40°    | 4516.7  | 43.4      |
| 0°-60°    | 8147.7  | 78.4      |
| 0°-90°    | 10398.9 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10398.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3476 | 3476  | 3476 | 3476  | 3476 |      |
| 5°  | 3486 | 3471  | 3440 | 3473  | 3455 | 331  |
| 15° | 3383 | 3367  | 3340 | 3370  | 3359 | 955  |
| 25° | 3171 | 3160  | 3135 | 3167  | 3150 | 1463 |
| 35° | 2867 | 2854  | 2840 | 2850  | 2834 | 1794 |
| 45° | 2466 | 2458  | 2449 | 2446  | 2428 | 1900 |
| 55° | 1951 | 1966  | 1953 | 1945  | 1931 | 1745 |
| 65° | 1361 | 1365  | 1362 | 1344  | 1328 | 1346 |
| 75° | 707  | 709   | 705  | 694   | 683  | 748  |
| 85° | 139  | 142   | 138  | 131   | 120  | 173  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3476.5 | 3476.5 | 3476.5 | 3476.5 | 3476.5 |
| 2.5°  | 3497.1 | 3480.0 | 3448.0 | 3480.0 | 3464.0 |
| 5°    | 3485.7 | 3470.8 | 3440.0 | 3473.1 | 3454.8 |
| 7.5°  | 3469.7 | 3457.1 | 3426.2 | 3458.2 | 3440.0 |
| 10°   | 3446.8 | 3433.1 | 3403.4 | 3437.7 | 3419.4 |
| 12.5° | 3416.0 | 3403.4 | 3374.8 | 3406.8 | 3390.8 |
| 15°   | 3382.8 | 3366.8 | 3340.5 | 3370.2 | 3358.8 |
| 17.5° | 3337.1 | 3324.5 | 3298.2 | 3326.8 | 3314.2 |
| 20°   | 3289.1 | 3276.5 | 3250.2 | 3278.8 | 3265.1 |
| 22.5° | 3234.2 | 3221.7 | 3194.2 | 3225.1 | 3211.4 |
| 25°   | 3171.4 | 3160.0 | 3134.8 | 3166.8 | 3149.7 |
| 27.5° | 3105.1 | 3096.0 | 3068.5 | 3094.8 | 3084.5 |
| 30°   | 3029.7 | 3024.0 | 2994.2 | 3014.8 | 3005.7 |
| 32.5° | 2953.1 | 2942.8 | 2922.2 | 2938.2 | 2929.1 |
| 35°   | 2867.4 | 2853.7 | 2840.0 | 2850.3 | 2834.3 |
| 37.5° | 2776.0 | 2766.8 | 2752.0 | 2761.1 | 2742.8 |
| 40°   | 2676.5 | 2668.5 | 2657.1 | 2659.4 | 2649.1 |
| 42.5° | 2573.7 | 2564.5 | 2555.4 | 2550.8 | 2539.4 |
| 45°   | 2466.3 | 2458.3 | 2449.1 | 2445.7 | 2428.5 |
| 47.5° | 2349.7 | 2344.0 | 2338.3 | 2330.3 | 2317.7 |
| 50°   | 2224.0 | 2226.3 | 2216.0 | 2209.1 | 2187.4 |
| 52.5° | 2089.1 | 2102.8 | 2088.0 | 2077.7 | 2065.1 |
| 55°   | 1950.8 | 1965.7 | 1953.1 | 1945.1 | 1931.4 |
| 57.5° | 1813.7 | 1820.5 | 1812.5 | 1806.8 | 1788.5 |
| 60°   | 1668.6 | 1674.3 | 1668.6 | 1656.0 | 1646.8 |
| 62.5° | 1518.8 | 1525.7 | 1514.3 | 1505.1 | 1492.6 |
| 65°   | 1361.1 | 1364.6 | 1362.3 | 1344.0 | 1328.0 |
| 67.5° | 1202.3 | 1208.0 | 1201.1 | 1188.6 | 1172.6 |
| 70°   | 1043.4 | 1040.0 | 1034.3 | 1025.1 | 1004.6 |
| 72.5° | 875.4  | 875.4  | 874.3  | 857.1  | 846.8  |
| 75°   | 707.4  | 708.6  | 705.1  | 693.7  | 683.4  |
| 77.5° | 539.4  | 552.0  | 542.9  | 531.4  | 520.0  |
| 80°   | 389.7  | 397.7  | 389.7  | 374.9  | 368.0  |
| 82.5° | 249.1  | 260.6  | 253.7  | 238.9  | 236.6  |
| 85°   | 139.4  | 141.7  | 138.3  | 131.4  | 120.0  |
| 87.5° | 52.6   | 54.9   | 56.0   | 45.7   | 40.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)