

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P601300

Luminaire Tested: 14CGSB-35-L940

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601300  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-233-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/24/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CGSB-35-L940  
Description: 1x4 CGSB AT 3500lm 4000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

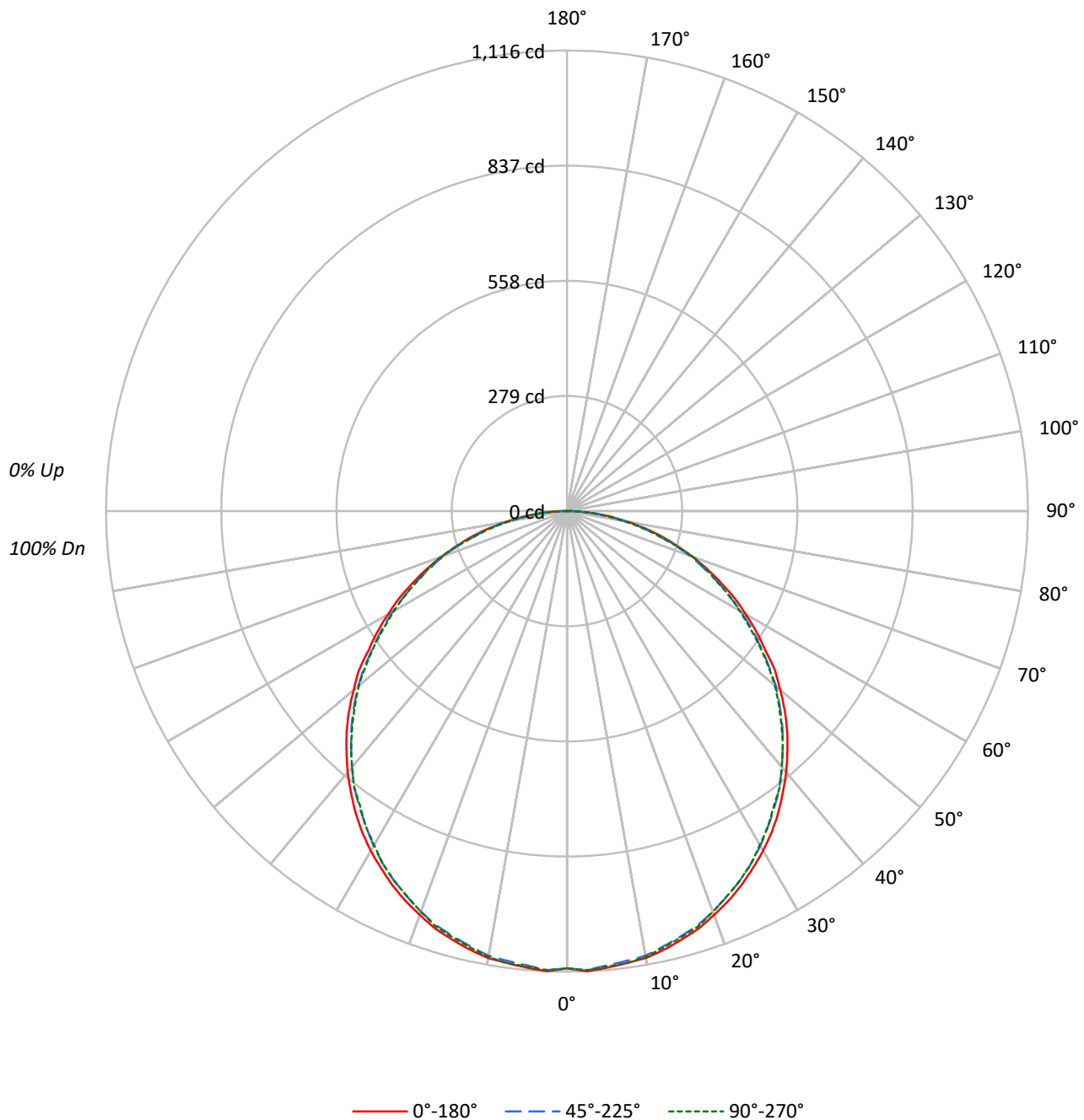
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3215.9 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 39  
Input Voltage (V): 120  
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: 24 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  |     |  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 94  |  | 97  | 94  | 91  |  | 93  | 90  | 88  |  | 89  | 87  | 85  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 82  | 76  |  | 84  | 79  | 74  |  | 81  | 77  | 73  |  | 78  | 74  | 71  |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 63  |  | 74  | 68  | 62  |  | 71  | 66  | 61  |  | 69  | 64  | 60  |
| 4   | 82  | 70  | 61  | 54  | 80  | 68  | 60  | 54  |  | 66  | 59  | 53  |  | 64  | 57  | 52  |  | 61  | 56  | 51  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  |  | 59  | 51  | 46  |  | 57  | 50  | 45  |  | 55  | 49  | 45  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 40  |  | 53  | 46  | 40  |  | 52  | 45  | 40  |  | 50  | 44  | 39  |
| 7   | 64  | 51  | 42  | 36  | 63  | 50  | 42  | 36  |  | 48  | 41  | 35  |  | 47  | 40  | 35  |  | 46  | 39  | 35  |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 37  | 32  |  | 44  | 37  | 32  |  | 43  | 36  | 31  |  | 42  | 36  | 31  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  |  | 41  | 33  | 28  |  | 40  | 33  | 28  |  | 39  | 33  | 28  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  |  | 38  | 31  | 26  |  | 37  | 30  | 26  |  | 36  | 30  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2981 | 2981 | 2981 |
| 5°  | 3000 | 2985 | 2992 |
| 10° | 3004 | 2989 | 2996 |
| 15° | 2993 | 2971 | 2978 |
| 20° | 2982 | 2958 | 2958 |
| 25° | 2969 | 2936 | 2936 |
| 30° | 2953 | 2910 | 2901 |
| 35° | 2931 | 2877 | 2868 |
| 40° | 2901 | 2843 | 2843 |
| 45° | 2870 | 2807 | 2796 |
| 50° | 2822 | 2764 | 2752 |
| 55° | 2747 | 2683 | 2670 |
| 60° | 2691 | 2617 | 2602 |
| 65° | 2621 | 2550 | 2533 |
| 70° | 2543 | 2500 | 2565 |
| 75° | 2470 | 2355 | 2355 |
| 80° | 2312 | 2269 | 2183 |
| 85° | 2133 | 2047 | 2047 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2870 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 105.3  | 3.3       |
| 10°-20°   | 301.9  | 9.4       |
| 20°-30°   | 456.8  | 14.2      |
| 30°-40°   | 550.5  | 17.1      |
| 40°-50°   | 571.6  | 17.8      |
| 50°-60°   | 514.7  | 16.0      |
| 60°-70°   | 397.7  | 12.4      |
| 70°-80°   | 242.4  | 7.5       |
| 80°-90°   | 74.9   | 2.3       |
| 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°    | 864.1  | 26.9      |
| 0°-40°    | 1414.5 | 44.0      |
| 0°-60°    | 2500.9 | 77.8      |
| 0°-90°    | 3215.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3215.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1108 | 1108  | 1108 | 1108  | 1108 |      |
| 5°  | 1110 | 1108  | 1105 | 1105  | 1108 | 106  |
| 15° | 1074 | 1072  | 1066 | 1066  | 1069 | 303  |
| 25° | 1000 | 997   | 989  | 986   | 989  | 461  |
| 35° | 892  | 887   | 876  | 873   | 873  | 558  |
| 45° | 754  | 749   | 738  | 735   | 735  | 581  |
| 55° | 586  | 580   | 572  | 569   | 569  | 526  |
| 65° | 412  | 403   | 400  | 395   | 398  | 408  |
| 75° | 238  | 229   | 226  | 224   | 226  | 250  |
| 85° | 69   | 69    | 66   | 64    | 66   | 78   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1107.7 | 1107.7 | 1107.7 | 1107.7 | 1107.7 |
| 2.5°  | 1116.0 | 1116.0 | 1113.2 | 1113.2 | 1113.2 |
| 5°    | 1110.5 | 1107.7 | 1104.9 | 1104.9 | 1107.7 |
| 7.5°  | 1104.9 | 1104.9 | 1099.4 | 1099.4 | 1104.9 |
| 10°   | 1099.4 | 1096.6 | 1093.9 | 1093.9 | 1096.6 |
| 12.5° | 1088.4 | 1085.6 | 1080.1 | 1080.1 | 1082.8 |
| 15°   | 1074.5 | 1071.8 | 1066.3 | 1066.3 | 1069.0 |
| 17.5° | 1060.7 | 1058.0 | 1052.4 | 1052.4 | 1055.2 |
| 20°   | 1041.4 | 1038.6 | 1033.1 | 1030.3 | 1033.1 |
| 22.5° | 1022.1 | 1019.3 | 1011.0 | 1008.2 | 1011.0 |
| 25°   | 1000.0 | 997.2  | 988.9  | 986.2  | 988.9  |
| 27.5° | 975.1  | 972.3  | 964.1  | 961.3  | 964.1  |
| 30°   | 950.2  | 944.7  | 936.4  | 930.9  | 933.7  |
| 32.5° | 922.6  | 917.1  | 906.0  | 903.3  | 906.0  |
| 35°   | 892.2  | 886.7  | 875.7  | 872.9  | 872.9  |
| 37.5° | 859.1  | 856.3  | 845.3  | 842.5  | 845.3  |
| 40°   | 825.9  | 820.4  | 809.4  | 806.6  | 809.4  |
| 42.5° | 790.0  | 784.5  | 773.5  | 773.5  | 773.5  |
| 45°   | 754.1  | 748.6  | 737.5  | 734.8  | 734.8  |
| 47.5° | 715.4  | 709.9  | 698.9  | 696.1  | 696.1  |
| 50°   | 674.0  | 668.5  | 660.2  | 657.4  | 657.4  |
| 52.5° | 635.3  | 627.0  | 616.0  | 613.2  | 613.2  |
| 55°   | 585.6  | 580.1  | 571.8  | 569.0  | 569.0  |
| 57.5° | 544.2  | 535.9  | 530.4  | 524.8  | 524.8  |
| 60°   | 500.0  | 491.7  | 486.2  | 483.4  | 483.4  |
| 62.5° | 458.5  | 447.5  | 442.0  | 439.2  | 442.0  |
| 65°   | 411.6  | 403.3  | 400.5  | 395.0  | 397.8  |
| 67.5° | 367.4  | 359.1  | 356.3  | 356.3  | 361.9  |
| 70°   | 323.2  | 314.9  | 317.7  | 309.4  | 326.0  |
| 72.5° | 279.0  | 273.5  | 273.5  | 265.2  | 273.5  |
| 75°   | 237.6  | 229.3  | 226.5  | 223.7  | 226.5  |
| 77.5° | 193.4  | 190.6  | 187.8  | 182.3  | 185.1  |
| 80°   | 149.2  | 154.7  | 146.4  | 138.1  | 140.9  |
| 82.5° | 110.5  | 107.7  | 102.2  | 99.4   | 102.2  |
| 85°   | 69.1   | 69.1   | 66.3   | 63.5   | 66.3   |
| 87.5° | 33.1   | 33.1   | 30.4   | 30.4   | 33.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)