

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: P568327

Luminaire Tested: **14CGTX-42-L935**

Issue Date: 9/19/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CGTX-42-L935  
Description: 1X4 4200 LUMEN LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 3500K, 90CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

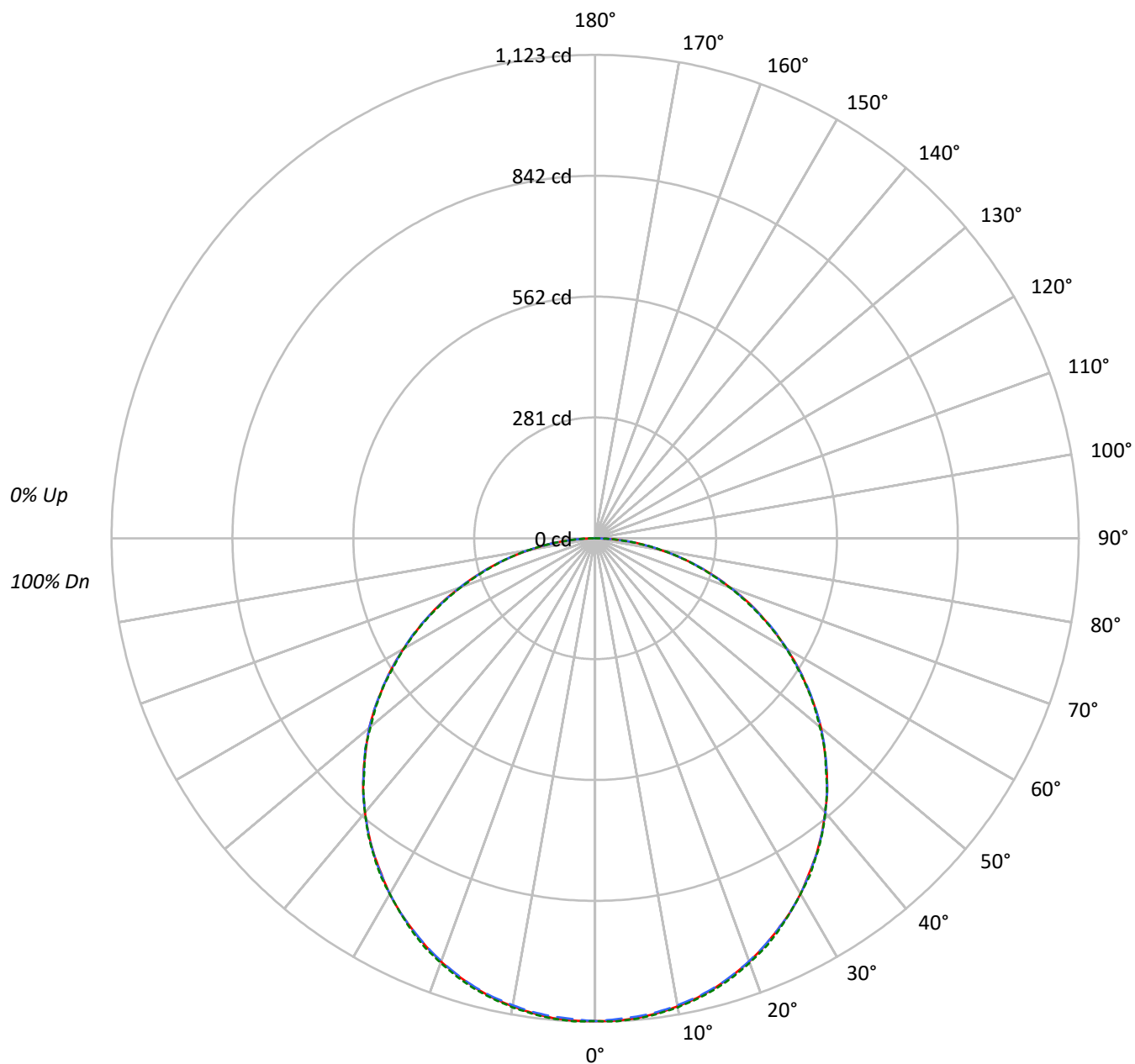
Lumens per Lamp: N/A  
Luminaire Lumens: 3316.0 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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  |     |     |     |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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 | 100 |    |    |
| 1   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 93  | 90  | 93  | 90  | 88  | 89  | 87  | 85  | 83  |    |    |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 78  | 74  | 71  | 69  |    |    |
| 3   | 89  | 79  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 57  |    |    |
| 4   | 82  | 69  | 60  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 52  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |    |    |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |    |    |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  | 51  | 44  | 39  | 50  | 44  | 39  | 37  |    |    |
| 7   | 64  | 50  | 42  | 35  | 62  | 50  | 41  | 35  | 48  | 40  | 35  | 47  | 40  | 35  | 45  | 39  | 34  | 32  |    |    |
| 8   | 60  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 29  |    |    |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 36  | 30  | 25  | 23  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3018 | 3018 | 3018 |
| 5°  | 3022 | 3013 | 3026 |
| 10° | 3017 | 3010 | 3023 |
| 15° | 3009 | 3007 | 3018 |
| 20° | 2997 | 2994 | 3005 |
| 25° | 2979 | 2979 | 2989 |
| 30° | 2965 | 2964 | 2965 |
| 35° | 2942 | 2944 | 2948 |
| 40° | 2920 | 2920 | 2920 |
| 45° | 2893 | 2892 | 2884 |
| 50° | 2866 | 2866 | 2849 |
| 55° | 2816 | 2824 | 2813 |
| 60° | 2766 | 2766 | 2759 |
| 65° | 2706 | 2704 | 2688 |
| 70° | 2618 | 2631 | 2602 |
| 75° | 2536 | 2540 | 2505 |
| 80° | 2356 | 2394 | 2394 |
| 85° | 2220 | 2192 | 2155 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 106.3  | 3.2       |
| 10°-20°   | 305.1  | 9.2       |
| 20°-30°   | 463.2  | 14.0      |
| 30°-40°   | 560.9  | 16.9      |
| 40°-50°   | 586.7  | 17.7      |
| 50°-60°   | 537.4  | 16.2      |
| 60°-70°   | 420.3  | 12.7      |
| 70°-80°   | 257.0  | 7.8       |
| 80°-90°   | 79.2   | 2.4       |
| 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°    | 874.6  | 26.4      |
| 0°-40°    | 1435.4 | 43.3      |
| 0°-60°    | 2559.5 | 77.2      |
| 0°-90°    | 3316.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3316.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1122 | 1122  | 1122 | 1122  | 1122 |      |
| 5°  | 1119 | 1119  | 1115 | 1119  | 1120 | 106  |
| 15° | 1080 | 1081  | 1079 | 1082  | 1083 | 305  |
| 25° | 1003 | 1005  | 1003 | 1006  | 1007 | 463  |
| 35° | 896  | 896   | 896  | 897   | 897  | 560  |
| 45° | 760  | 762   | 760  | 760   | 758  | 586  |
| 55° | 600  | 604   | 602  | 600   | 600  | 537  |
| 65° | 425  | 427   | 425  | 423   | 422  | 421  |
| 75° | 244  | 243   | 244  | 243   | 241  | 257  |
| 85° | 72   | 69    | 71   | 69    | 70   | 80   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1121.7 | 1121.7 | 1121.7 | 1121.7 | 1121.7 |
| 2.5°  | 1121.7 | 1121.7 | 1118.3 | 1122.5 | 1123.3 |
| 5°    | 1118.8 | 1118.8 | 1115.4 | 1119.2 | 1120.4 |
| 7.5°  | 1112.5 | 1112.9 | 1110.0 | 1113.8 | 1114.2 |
| 10°   | 1104.2 | 1104.6 | 1101.7 | 1105.9 | 1106.3 |
| 12.5° | 1093.8 | 1094.2 | 1091.8 | 1095.5 | 1095.9 |
| 15°   | 1080.1 | 1081.0 | 1079.3 | 1082.2 | 1083.4 |
| 17.5° | 1064.3 | 1065.6 | 1063.5 | 1067.2 | 1067.7 |
| 20°   | 1046.5 | 1046.9 | 1045.6 | 1048.5 | 1049.4 |
| 22.5° | 1026.1 | 1027.4 | 1025.3 | 1029.0 | 1030.3 |
| 25°   | 1003.3 | 1005.3 | 1003.3 | 1005.8 | 1006.6 |
| 27.5° | 980.0  | 981.7  | 980.0  | 981.2  | 980.4  |
| 30°   | 954.2  | 954.7  | 953.8  | 954.2  | 954.2  |
| 32.5° | 924.3  | 926.0  | 925.2  | 927.2  | 928.1  |
| 35°   | 895.7  | 896.1  | 896.1  | 897.3  | 897.3  |
| 37.5° | 864.5  | 864.5  | 864.9  | 866.2  | 866.2  |
| 40°   | 831.3  | 832.1  | 831.3  | 832.1  | 831.3  |
| 42.5° | 797.6  | 797.2  | 797.6  | 798.0  | 796.8  |
| 45°   | 760.2  | 761.5  | 759.8  | 759.8  | 757.7  |
| 47.5° | 721.6  | 724.1  | 723.7  | 722.4  | 722.8  |
| 50°   | 684.6  | 685.5  | 684.6  | 683.4  | 680.5  |
| 52.5° | 643.5  | 646.0  | 643.9  | 644.3  | 641.0  |
| 55°   | 600.3  | 604.5  | 602.0  | 600.3  | 599.5  |
| 57.5° | 559.2  | 560.4  | 557.9  | 555.8  | 554.6  |
| 60°   | 513.9  | 515.5  | 513.9  | 512.2  | 512.6  |
| 62.5° | 469.4  | 471.9  | 472.3  | 469.0  | 468.2  |
| 65°   | 425.0  | 427.1  | 424.6  | 422.9  | 422.1  |
| 67.5° | 381.8  | 381.4  | 379.3  | 377.2  | 376.4  |
| 70°   | 332.8  | 335.7  | 334.4  | 334.8  | 330.7  |
| 72.5° | 289.1  | 289.6  | 288.3  | 288.3  | 285.0  |
| 75°   | 243.9  | 242.6  | 244.3  | 242.6  | 240.9  |
| 77.5° | 199.0  | 200.2  | 199.8  | 197.7  | 199.4  |
| 80°   | 152.0  | 153.7  | 154.5  | 152.9  | 154.5  |
| 82.5° | 112.6  | 112.6  | 112.2  | 112.2  | 110.9  |
| 85°   | 71.9   | 69.4   | 71.0   | 69.4   | 69.8   |
| 87.5° | 32.8   | 32.4   | 30.7   | 32.0   | 31.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°    - - 45°-225°    - - - 90°-270°







(END OF REPORT)