

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: P568350

Luminaire Tested: **22CGTX-50HE-L930**

Issue Date: 9/19/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P568350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2205-645-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CGTX-50HE-L930  
Description: 2X2 5000 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 3000K, 90CRI LEDS  
Light Source: -  
Ballast/Driver: -

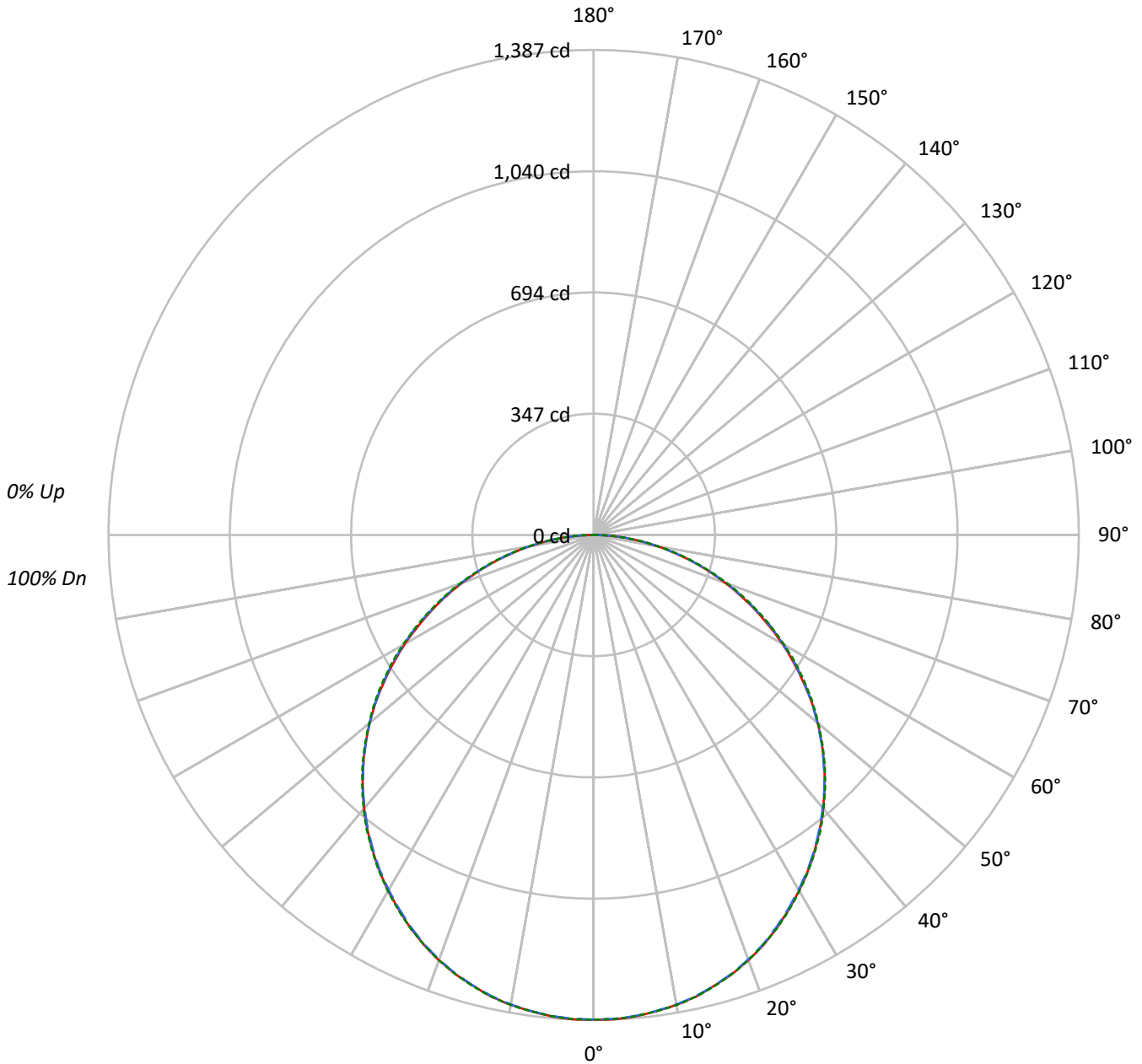
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4057.0 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 40  
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





TEST NUMBER: P568350

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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   | 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  | 94  | 90  | 93  | 90  | 88  | 89  | 87  | 85  | 83  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 77  | 73  | 78  | 74  | 71  | 69  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 89  | 79  | 70  | 64  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 66  | 61  | 69  | 64  | 60  | 58  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 82  | 70  | 61  | 54  | 80  | 68  | 60  | 53  | 66  | 58  | 53  | 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  | 45  | 39  | 50  | 44  | 39  | 37  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 64  | 51  | 42  | 35  | 63  | 50  | 41  | 35  | 48  | 41  | 35  | 47  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 41  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 52  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 30  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 24  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3730 | 3730 | 3730 |
| 5°  | 3733 | 3730 | 3732 |
| 10° | 3729 | 3725 | 3731 |
| 15° | 3718 | 3718 | 3721 |
| 20° | 3706 | 3701 | 3706 |
| 25° | 3681 | 3673 | 3683 |
| 30° | 3650 | 3642 | 3655 |
| 35° | 3619 | 3612 | 3626 |
| 40° | 3586 | 3579 | 3593 |
| 45° | 3546 | 3543 | 3556 |
| 50° | 3499 | 3496 | 3507 |
| 55° | 3428 | 3438 | 3461 |
| 60° | 3353 | 3368 | 3390 |
| 65° | 3254 | 3277 | 3303 |
| 70° | 3141 | 3174 | 3201 |
| 75° | 3016 | 3038 | 3073 |
| 80° | 2836 | 2868 | 2890 |
| 85° | 2581 | 2603 | 2643 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 131.2  | 3.2       |
| 10°-20°   | 376.6  | 9.3       |
| 20°-30°   | 570.7  | 14.1      |
| 30°-40°   | 689.2  | 17.0      |
| 40°-50°   | 719.1  | 17.7      |
| 50°-60°   | 655.8  | 16.2      |
| 60°-70°   | 509.7  | 12.6      |
| 70°-80°   | 309.2  | 7.6       |
| 80°-90°   | 95.3   | 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°    | 1078.6 | 26.6      |
| 0°-40°    | 1767.8 | 43.6      |
| 0°-60°    | 3142.7 | 77.5      |
| 0°-90°    | 4057.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4057.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1386 | 1386  | 1386 | 1386  | 1386 |      |
| 5°  | 1382 | 1380  | 1381 | 1380  | 1381 | 131  |
| 15° | 1334 | 1334  | 1334 | 1334  | 1336 | 377  |
| 25° | 1240 | 1237  | 1237 | 1239  | 1240 | 571  |
| 35° | 1102 | 1100  | 1100 | 1104  | 1104 | 689  |
| 45° | 932  | 931   | 931  | 935   | 934  | 719  |
| 55° | 731  | 732   | 733  | 735   | 738  | 654  |
| 65° | 511  | 512   | 515  | 517   | 519  | 506  |
| 75° | 290  | 289   | 292  | 295   | 296  | 307  |
| 85° | 84   | 84    | 84   | 86    | 86   | 94   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1386.2 | 1386.2 | 1386.2 | 1386.2 | 1386.2 |
| 2.5°  | 1386.9 | 1384.8 | 1384.8 | 1384.1 | 1386.2 |
| 5°    | 1382.0 | 1380.0 | 1380.7 | 1380.0 | 1381.4 |
| 7.5°  | 1373.8 | 1372.4 | 1373.1 | 1372.4 | 1373.8 |
| 10°   | 1364.8 | 1363.4 | 1363.4 | 1363.4 | 1365.5 |
| 12.5° | 1352.4 | 1351.0 | 1351.0 | 1351.0 | 1352.4 |
| 15°   | 1334.4 | 1334.4 | 1334.4 | 1334.4 | 1335.8 |
| 17.5° | 1316.4 | 1314.4 | 1315.1 | 1314.4 | 1316.4 |
| 20°   | 1294.3 | 1291.6 | 1292.3 | 1292.3 | 1294.3 |
| 22.5° | 1268.8 | 1266.0 | 1266.7 | 1266.7 | 1268.1 |
| 25°   | 1239.8 | 1237.0 | 1237.0 | 1239.1 | 1240.5 |
| 27.5° | 1208.0 | 1205.9 | 1205.2 | 1208.7 | 1209.4 |
| 30°   | 1174.8 | 1173.5 | 1172.1 | 1175.5 | 1176.2 |
| 32.5° | 1139.6 | 1138.2 | 1137.5 | 1141.0 | 1141.0 |
| 35°   | 1101.6 | 1100.3 | 1099.6 | 1103.7 | 1103.7 |
| 37.5° | 1062.3 | 1061.6 | 1060.2 | 1064.3 | 1065.0 |
| 40°   | 1020.8 | 1019.4 | 1018.8 | 1022.9 | 1022.9 |
| 42.5° | 977.3  | 975.9  | 976.6  | 980.1  | 979.4  |
| 45°   | 931.7  | 931.0  | 931.0  | 935.2  | 934.5  |
| 47.5° | 884.8  | 883.4  | 884.1  | 888.2  | 886.8  |
| 50°   | 835.7  | 834.3  | 835.0  | 839.2  | 837.8  |
| 52.5° | 785.3  | 783.9  | 785.3  | 789.4  | 789.4  |
| 55°   | 730.7  | 732.1  | 732.8  | 734.9  | 737.6  |
| 57.5° | 677.6  | 678.2  | 681.0  | 682.4  | 684.5  |
| 60°   | 623.0  | 624.4  | 625.8  | 628.5  | 629.9  |
| 62.5° | 567.0  | 569.1  | 573.3  | 573.3  | 574.6  |
| 65°   | 511.1  | 512.5  | 514.6  | 516.6  | 518.7  |
| 67.5° | 455.8  | 456.5  | 460.0  | 460.7  | 462.8  |
| 70°   | 399.2  | 399.9  | 403.4  | 404.0  | 406.8  |
| 72.5° | 345.3  | 344.6  | 347.4  | 350.9  | 350.9  |
| 75°   | 290.1  | 289.4  | 292.2  | 294.9  | 295.6  |
| 77.5° | 236.2  | 235.5  | 237.6  | 241.0  | 241.0  |
| 80°   | 183.0  | 184.4  | 185.1  | 187.9  | 186.5  |
| 82.5° | 131.9  | 132.6  | 133.3  | 135.4  | 134.0  |
| 85°   | 83.6   | 84.3   | 84.3   | 86.3   | 85.6   |
| 87.5° | 39.4   | 38.7   | 38.7   | 40.1   | 39.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)