

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: P568550

Luminaire Tested: **24CGTX-30-L840**

Issue Date: 9/19/2022

**Test Information**

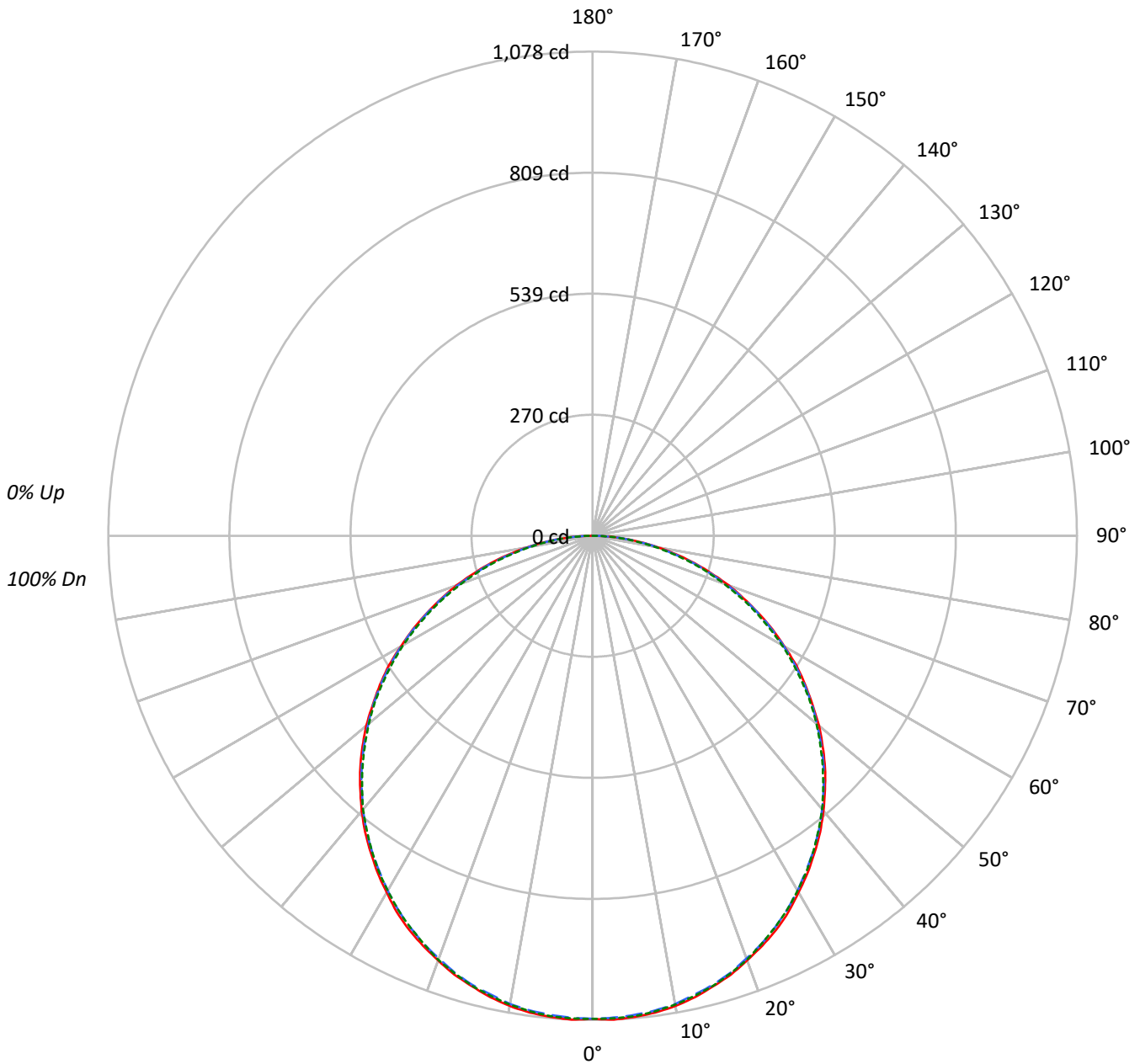
Test Method: LM-79-08  
Report Number: P568550  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CGTX-30-L840  
Description: 2X4 3000 LUMEN LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND  
4000K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3160.0 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.7  
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  |     |     |    |    | 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  | 76  | 72  | 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  | 79  | 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  | 32  |    |    |    |  |  |  |  |   |
| 8   | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 35  | 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  | 38  | 31  | 26  | 37  | 30  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 24  |    |    |    |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1447 | 1447 | 1447 |
| 5°  | 1452 | 1446 | 1450 |
| 10° | 1452 | 1446 | 1448 |
| 15° | 1446 | 1442 | 1444 |
| 20° | 1441 | 1434 | 1438 |
| 25° | 1436 | 1427 | 1427 |
| 30° | 1424 | 1417 | 1417 |
| 35° | 1415 | 1407 | 1407 |
| 40° | 1404 | 1396 | 1396 |
| 45° | 1392 | 1384 | 1378 |
| 50° | 1377 | 1364 | 1361 |
| 55° | 1355 | 1348 | 1337 |
| 60° | 1327 | 1323 | 1310 |
| 65° | 1295 | 1290 | 1270 |
| 70° | 1267 | 1242 | 1218 |
| 75° | 1218 | 1185 | 1161 |
| 80° | 1146 | 1122 | 1075 |
| 85° | 1047 | 1022 | 976  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.9  | 3.2       |
| 10°-20°   | 292.2  | 9.2       |
| 20°-30°   | 443.4  | 14.0      |
| 30°-40°   | 536.5  | 17.0      |
| 40°-50°   | 560.5  | 17.7      |
| 50°-60°   | 512.7  | 16.2      |
| 60°-70°   | 399.0  | 12.6      |
| 70°-80°   | 240.5  | 7.6       |
| 80°-90°   | 73.3   | 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°    | 837.5  | 26.5      |
| 0°-40°    | 1374.0 | 43.5      |
| 0°-60°    | 2447.1 | 77.4      |
| 0°-90°    | 3160.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3160.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1075 | 1075  | 1075 | 1075  | 1075 |      |
| 5°  | 1075 | 1072  | 1071 | 1071  | 1074 | 102  |
| 15° | 1038 | 1035  | 1035 | 1034  | 1037 | 293  |
| 25° | 968  | 963   | 961  | 960   | 961  | 446  |
| 35° | 861  | 858   | 857  | 857   | 857  | 539  |
| 45° | 732  | 727   | 727  | 724   | 724  | 564  |
| 55° | 578  | 576   | 575  | 570   | 570  | 516  |
| 65° | 407  | 407   | 405  | 399   | 399  | 403  |
| 75° | 234  | 231   | 228  | 223   | 223  | 246  |
| 85° | 68   | 66    | 66   | 63    | 63   | 75   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1075.4 | 1075.4 | 1075.4 | 1075.4 | 1075.4 |
| 2.5°  | 1078.5 | 1075.4 | 1073.8 | 1073.8 | 1075.4 |
| 5°    | 1075.4 | 1072.3 | 1070.8 | 1070.8 | 1073.8 |
| 7.5°  | 1070.8 | 1066.1 | 1066.1 | 1064.6 | 1067.7 |
| 10°   | 1063.1 | 1058.4 | 1058.4 | 1056.9 | 1060.0 |
| 12.5° | 1052.3 | 1047.7 | 1046.1 | 1046.1 | 1049.2 |
| 15°   | 1038.4 | 1035.3 | 1035.3 | 1033.8 | 1036.9 |
| 17.5° | 1024.5 | 1019.9 | 1019.9 | 1018.4 | 1021.5 |
| 20°   | 1006.1 | 1003.0 | 1001.4 | 1001.4 | 1004.5 |
| 22.5° | 987.6  | 984.5  | 982.9  | 982.9  | 982.9  |
| 25°   | 967.5  | 962.9  | 961.4  | 959.8  | 961.4  |
| 27.5° | 944.4  | 938.3  | 938.3  | 936.7  | 938.3  |
| 30°   | 916.7  | 913.6  | 912.1  | 910.5  | 912.1  |
| 32.5° | 890.5  | 885.9  | 884.3  | 885.9  | 885.9  |
| 35°   | 861.2  | 858.1  | 856.6  | 856.6  | 856.6  |
| 37.5° | 832.0  | 827.3  | 827.3  | 825.8  | 825.8  |
| 40°   | 799.6  | 796.5  | 795.0  | 795.0  | 795.0  |
| 42.5° | 765.7  | 762.6  | 761.1  | 759.5  | 759.5  |
| 45°   | 731.8  | 727.2  | 727.2  | 724.1  | 724.1  |
| 47.5° | 694.8  | 691.8  | 690.2  | 687.1  | 687.1  |
| 50°   | 657.9  | 654.8  | 651.7  | 651.7  | 650.2  |
| 52.5° | 616.3  | 616.3  | 614.7  | 611.6  | 611.6  |
| 55°   | 577.7  | 576.2  | 574.7  | 570.0  | 570.0  |
| 57.5° | 537.7  | 536.2  | 533.1  | 528.4  | 528.4  |
| 60°   | 493.0  | 493.0  | 491.5  | 485.3  | 486.8  |
| 62.5° | 451.4  | 449.9  | 448.3  | 443.7  | 442.2  |
| 65°   | 406.7  | 406.7  | 405.2  | 399.0  | 399.0  |
| 67.5° | 363.6  | 363.6  | 360.5  | 354.4  | 354.4  |
| 70°   | 322.0  | 317.4  | 315.8  | 311.2  | 309.7  |
| 72.5° | 275.8  | 274.2  | 271.2  | 266.5  | 266.5  |
| 75°   | 234.2  | 231.1  | 228.0  | 223.4  | 223.4  |
| 77.5° | 189.5  | 186.4  | 183.3  | 181.8  | 178.7  |
| 80°   | 147.9  | 146.4  | 144.8  | 140.2  | 138.7  |
| 82.5° | 106.3  | 104.8  | 103.2  | 101.7  | 100.1  |
| 85°   | 67.8   | 66.2   | 66.2   | 63.2   | 63.2   |
| 87.5° | 29.3   | 30.8   | 27.7   | 29.3   | 27.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)