

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: P568549

Luminaire Tested: **24CGTX-20-L840**

Issue Date: 9/19/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568549  
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-20-L840  
Description: 2X4 2000 LUMEN LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 4000K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

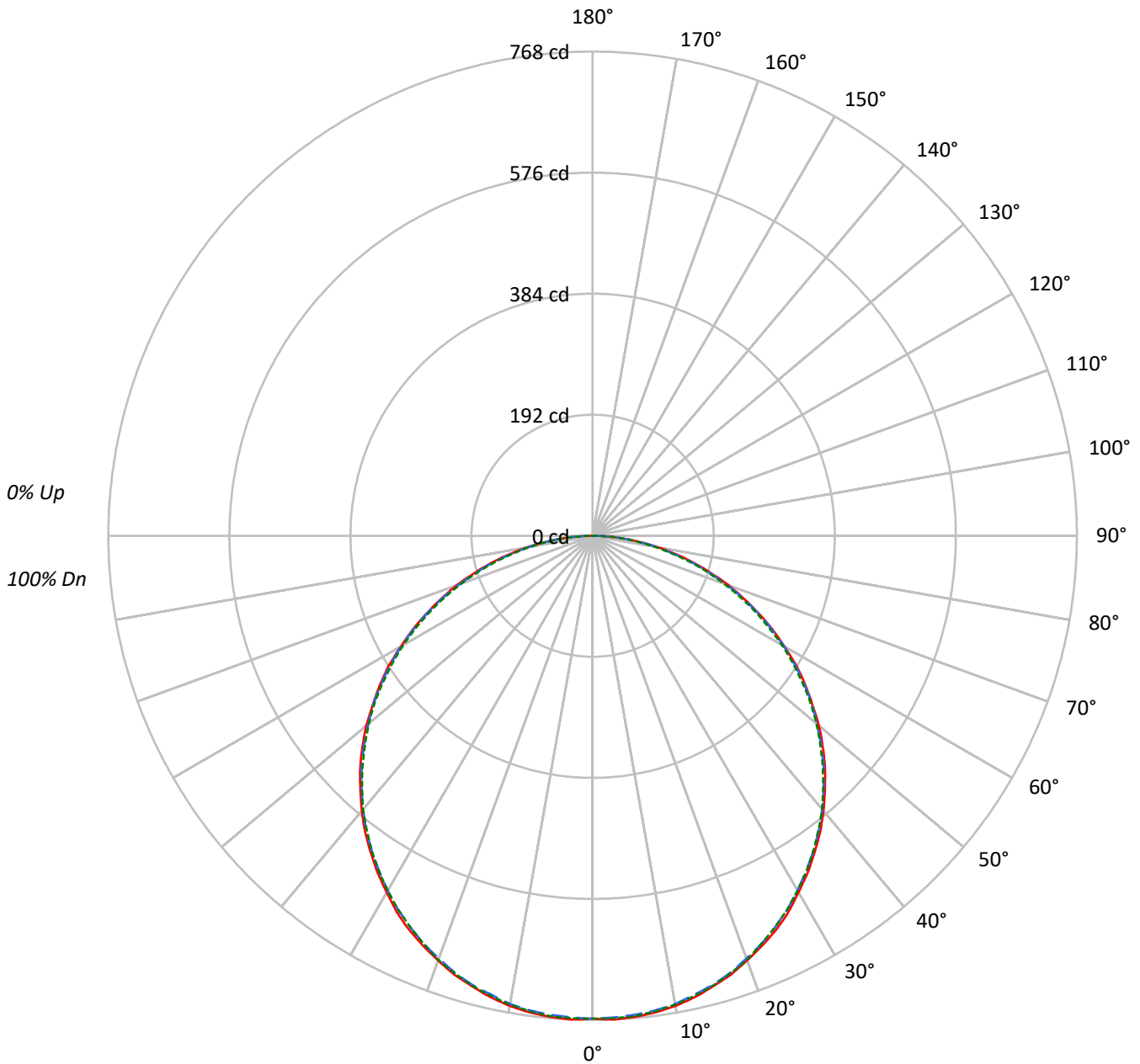
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2251.0 lumens  
Efficiency: N/A  
Efficacy: 134.8 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): 16.7  
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  |     |    |    | 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 |    |    |    | 100 |
| 1   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 94  | 90  | 93  | 90  | 88  | 89  | 87  | 85  | 83  |    |    |    | 83  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 78  | 74  | 71  | 69  |    |    |    | 69  |
| 3   | 89  | 79  | 70  | 64  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 66  | 61  | 69  | 64  | 60  | 58  |    |    |    | 58  |
| 4   | 82  | 70  | 61  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 53  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |    |    |    | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |    |    |    | 42  |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  | 51  | 45  | 39  | 50  | 44  | 39  | 37  |    |    |    | 37  |
| 7   | 64  | 51  | 42  | 35  | 63  | 50  | 41  | 35  | 48  | 41  | 35  | 47  | 40  | 35  | 45  | 39  | 35  | 32  |    |    |    | 32  |
| 8   | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 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  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 23  |    |    |    | 23  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1031 | 1031 | 1031 |
| 5°  | 1035 | 1030 | 1033 |
| 10° | 1035 | 1030 | 1032 |
| 15° | 1030 | 1027 | 1029 |
| 20° | 1026 | 1021 | 1025 |
| 25° | 1023 | 1017 | 1017 |
| 30° | 1015 | 1009 | 1009 |
| 35° | 1008 | 1002 | 1002 |
| 40° | 1000 | 995  | 995  |
| 45° | 992  | 986  | 981  |
| 50° | 981  | 972  | 969  |
| 55° | 966  | 960  | 953  |
| 60° | 945  | 942  | 933  |
| 65° | 922  | 919  | 905  |
| 70° | 902  | 885  | 868  |
| 75° | 867  | 844  | 827  |
| 80° | 817  | 800  | 766  |
| 85° | 746  | 729  | 695  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.6   | 3.2       |
| 10°-20°   | 208.1  | 9.2       |
| 20°-30°   | 315.9  | 14.0      |
| 30°-40°   | 382.2  | 17.0      |
| 40°-50°   | 399.3  | 17.7      |
| 50°-60°   | 365.2  | 16.2      |
| 60°-70°   | 284.3  | 12.6      |
| 70°-80°   | 171.3  | 7.6       |
| 80°-90°   | 52.2   | 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°    | 596.6  | 26.5      |
| 0°-40°    | 978.8  | 43.5      |
| 0°-60°    | 1743.2 | 77.4      |
| 0°-90°    | 2251.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2251.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 766 | 766   | 766 | 766   | 766 |      |
| 5°  | 766 | 764   | 763 | 763   | 765 | 73   |
| 15° | 740 | 738   | 738 | 736   | 739 | 209  |
| 25° | 689 | 686   | 685 | 684   | 685 | 317  |
| 35° | 614 | 611   | 610 | 610   | 610 | 384  |
| 45° | 521 | 518   | 518 | 516   | 516 | 402  |
| 55° | 412 | 410   | 409 | 406   | 406 | 368  |
| 65° | 290 | 290   | 289 | 284   | 284 | 287  |
| 75° | 167 | 165   | 162 | 159   | 159 | 176  |
| 85° | 48  | 47    | 47  | 45    | 45  | 54   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 766.0 | 766.0 | 766.0 | 766.0 | 766.0 |
| 2.5°  | 768.2 | 766.0 | 764.9 | 764.9 | 766.0 |
| 5°    | 766.0 | 763.8 | 762.7 | 762.7 | 764.9 |
| 7.5°  | 762.7 | 759.5 | 759.5 | 758.4 | 760.6 |
| 10°   | 757.3 | 754.0 | 754.0 | 752.9 | 755.1 |
| 12.5° | 749.6 | 746.3 | 745.2 | 745.2 | 747.4 |
| 15°   | 739.7 | 737.5 | 737.5 | 736.4 | 738.6 |
| 17.5° | 729.8 | 726.5 | 726.5 | 725.4 | 727.6 |
| 20°   | 716.7 | 714.5 | 713.4 | 713.4 | 715.6 |
| 22.5° | 703.5 | 701.3 | 700.2 | 700.2 | 700.2 |
| 25°   | 689.2 | 685.9 | 684.8 | 683.7 | 684.8 |
| 27.5° | 672.8 | 668.4 | 668.4 | 667.3 | 668.4 |
| 30°   | 653.0 | 650.8 | 649.7 | 648.6 | 649.7 |
| 32.5° | 634.3 | 631.1 | 630.0 | 631.1 | 631.1 |
| 35°   | 613.5 | 611.3 | 610.2 | 610.2 | 610.2 |
| 37.5° | 592.6 | 589.3 | 589.3 | 588.2 | 588.2 |
| 40°   | 569.6 | 567.4 | 566.3 | 566.3 | 566.3 |
| 42.5° | 545.4 | 543.3 | 542.2 | 541.1 | 541.1 |
| 45°   | 521.3 | 518.0 | 518.0 | 515.8 | 515.8 |
| 47.5° | 495.0 | 492.8 | 491.7 | 489.5 | 489.5 |
| 50°   | 468.6 | 466.4 | 464.2 | 464.2 | 463.1 |
| 52.5° | 439.0 | 439.0 | 437.9 | 435.7 | 435.7 |
| 55°   | 411.6 | 410.5 | 409.4 | 406.1 | 406.1 |
| 57.5° | 383.0 | 381.9 | 379.7 | 376.4 | 376.4 |
| 60°   | 351.2 | 351.2 | 350.1 | 345.7 | 346.8 |
| 62.5° | 321.6 | 320.5 | 319.4 | 316.1 | 315.0 |
| 65°   | 289.7 | 289.7 | 288.6 | 284.2 | 284.2 |
| 67.5° | 259.0 | 259.0 | 256.8 | 252.4 | 252.4 |
| 70°   | 229.4 | 226.1 | 225.0 | 221.7 | 220.6 |
| 72.5° | 196.4 | 195.4 | 193.2 | 189.9 | 189.9 |
| 75°   | 166.8 | 164.6 | 162.4 | 159.1 | 159.1 |
| 77.5° | 135.0 | 132.8 | 130.6 | 129.5 | 127.3 |
| 80°   | 105.4 | 104.3 | 103.2 | 99.9  | 98.8  |
| 82.5° | 75.7  | 74.6  | 73.5  | 72.4  | 71.3  |
| 85°   | 48.3  | 47.2  | 47.2  | 45.0  | 45.0  |
| 87.5° | 20.9  | 21.9  | 19.8  | 20.9  | 19.8  |
| 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)