

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: P568539

Luminaire Tested: **24CGTX-20-L935**

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568539
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-L935
Description: 2X4 2000 LUMEN LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 3500K, 90CRI LEDS
Light Source: -
Ballast/Driver: -

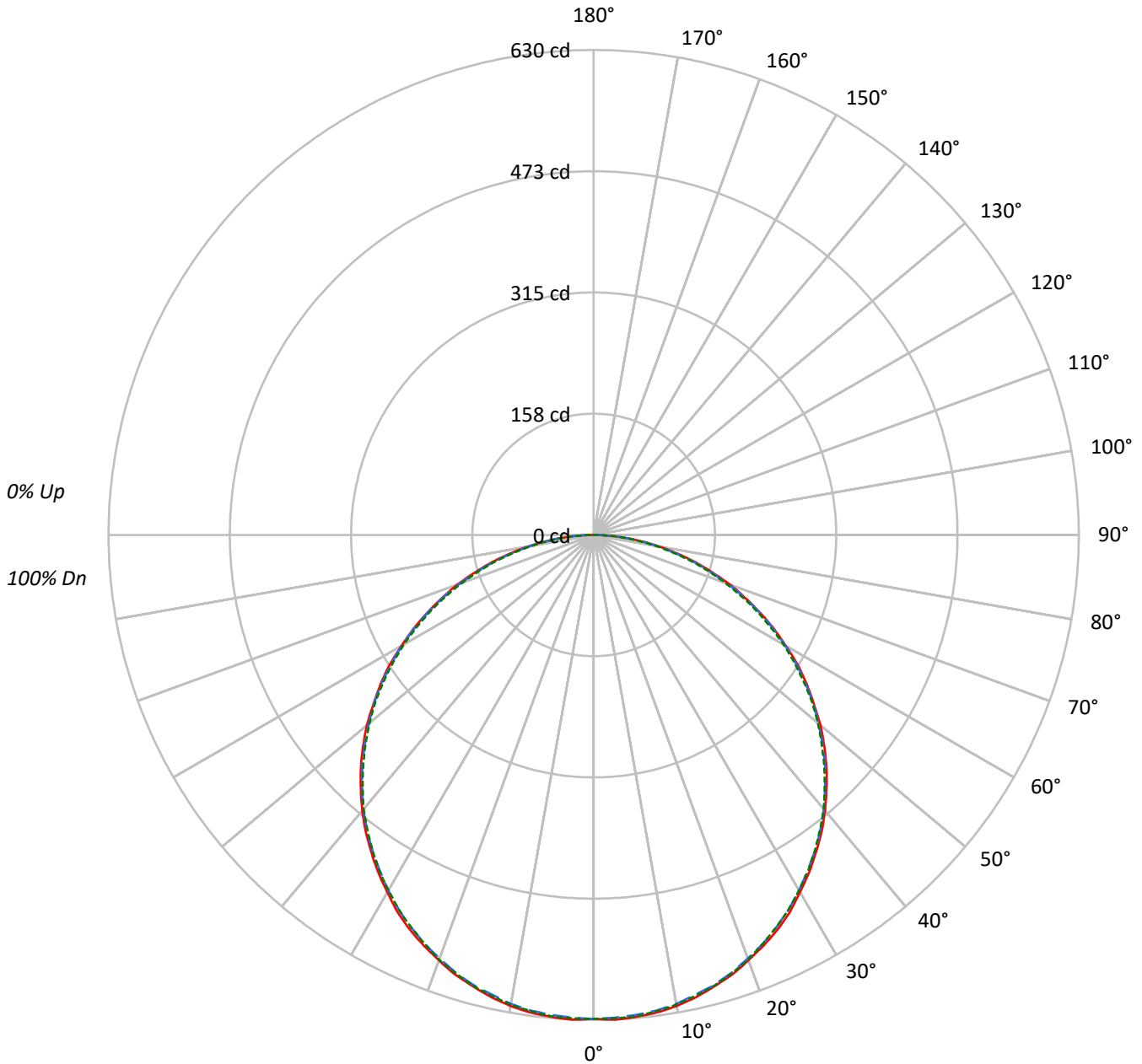
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1847.0 lumens
Efficiency: N/A
Efficacy: 110.6 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_{in}): 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

TEST NUMBER: P568539
CATALOG NUMBER: 24CGTX-20-L935

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 | | | |
| 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° | 846 | 846 | 846 |
| 5° | 849 | 845 | 848 |
| 10° | 849 | 845 | 846 |
| 15° | 845 | 843 | 844 |
| 20° | 842 | 838 | 841 |
| 25° | 840 | 834 | 834 |
| 30° | 832 | 828 | 828 |
| 35° | 827 | 822 | 822 |
| 40° | 821 | 816 | 816 |
| 45° | 814 | 809 | 805 |
| 50° | 805 | 797 | 795 |
| 55° | 792 | 788 | 782 |
| 60° | 776 | 773 | 766 |
| 65° | 757 | 754 | 742 |
| 70° | 740 | 726 | 712 |
| 75° | 712 | 693 | 679 |
| 80° | 669 | 656 | 628 |
| 85° | 611 | 597 | 570 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.6 | 3.2 |
| 10°-20° | 170.8 | 9.2 |
| 20°-30° | 259.2 | 14.0 |
| 30°-40° | 313.6 | 17.0 |
| 40°-50° | 327.6 | 17.7 |
| 50°-60° | 299.7 | 16.2 |
| 60°-70° | 233.2 | 12.6 |
| 70°-80° | 140.6 | 7.6 |
| 80°-90° | 42.8 | 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° | 489.5 | 26.5 |
| 0°-40° | 803.1 | 43.5 |
| 0°-60° | 1430.4 | 77.4 |
| 0°-90° | 1847.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1847.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 629 | 629 | 629 | 629 | 629 | |
| 5° | 629 | 627 | 626 | 626 | 628 | 60 |
| 15° | 607 | 605 | 605 | 604 | 606 | 171 |
| 25° | 566 | 563 | 562 | 561 | 562 | 260 |
| 35° | 503 | 502 | 501 | 501 | 501 | 315 |
| 45° | 428 | 425 | 425 | 423 | 423 | 330 |
| 55° | 338 | 337 | 336 | 333 | 333 | 302 |
| 65° | 238 | 238 | 237 | 233 | 233 | 236 |
| 75° | 137 | 135 | 133 | 131 | 131 | 144 |
| 85° | 40 | 39 | 39 | 37 | 37 | 44 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 628.6 | 628.6 | 628.6 | 628.6 | 628.6 |
| 2.5° | 630.4 | 628.6 | 627.7 | 627.7 | 628.6 |
| 5° | 628.6 | 626.8 | 625.9 | 625.9 | 627.7 |
| 7.5° | 625.9 | 623.2 | 623.2 | 622.3 | 624.1 |
| 10° | 621.4 | 618.6 | 618.6 | 617.7 | 619.5 |
| 12.5° | 615.0 | 612.3 | 611.4 | 611.4 | 613.2 |
| 15° | 606.9 | 605.1 | 605.1 | 604.2 | 606.0 |
| 17.5° | 598.8 | 596.1 | 596.1 | 595.2 | 597.0 |
| 20° | 588.0 | 586.2 | 585.3 | 585.3 | 587.1 |
| 22.5° | 577.2 | 575.4 | 574.5 | 574.5 | 574.5 |
| 25° | 565.5 | 562.8 | 561.9 | 561.0 | 561.9 |
| 27.5° | 552.0 | 548.4 | 548.4 | 547.5 | 548.4 |
| 30° | 535.8 | 534.0 | 533.1 | 532.2 | 533.1 |
| 32.5° | 520.5 | 517.8 | 516.9 | 517.8 | 517.8 |
| 35° | 503.4 | 501.6 | 500.7 | 500.7 | 500.7 |
| 37.5° | 486.3 | 483.6 | 483.6 | 482.7 | 482.7 |
| 40° | 467.4 | 465.6 | 464.7 | 464.7 | 464.7 |
| 42.5° | 447.6 | 445.8 | 444.9 | 444.0 | 444.0 |
| 45° | 427.7 | 425.0 | 425.0 | 423.2 | 423.2 |
| 47.5° | 406.1 | 404.3 | 403.4 | 401.6 | 401.6 |
| 50° | 384.5 | 382.7 | 380.9 | 380.9 | 380.0 |
| 52.5° | 360.2 | 360.2 | 359.3 | 357.5 | 357.5 |
| 55° | 337.7 | 336.8 | 335.9 | 333.2 | 333.2 |
| 57.5° | 314.3 | 313.4 | 311.6 | 308.9 | 308.9 |
| 60° | 288.2 | 288.2 | 287.3 | 283.7 | 284.6 |
| 62.5° | 263.8 | 262.9 | 262.0 | 259.3 | 258.4 |
| 65° | 237.7 | 237.7 | 236.8 | 233.2 | 233.2 |
| 67.5° | 212.5 | 212.5 | 210.7 | 207.1 | 207.1 |
| 70° | 188.2 | 185.5 | 184.6 | 181.9 | 181.0 |
| 72.5° | 161.2 | 160.3 | 158.5 | 155.8 | 155.8 |
| 75° | 136.9 | 135.1 | 133.3 | 130.6 | 130.6 |
| 77.5° | 110.8 | 109.0 | 107.2 | 106.3 | 104.5 |
| 80° | 86.4 | 85.5 | 84.6 | 81.9 | 81.0 |
| 82.5° | 62.1 | 61.2 | 60.3 | 59.4 | 58.5 |
| 85° | 39.6 | 38.7 | 38.7 | 36.9 | 36.9 |
| 87.5° | 17.1 | 18.0 | 16.2 | 17.1 | 16.2 |
| 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)