

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: P568443

Luminaire Tested: **24CGTX-20HE-L835**

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568443
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-20HE-L835
Description: 2X4 2000 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 3500K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

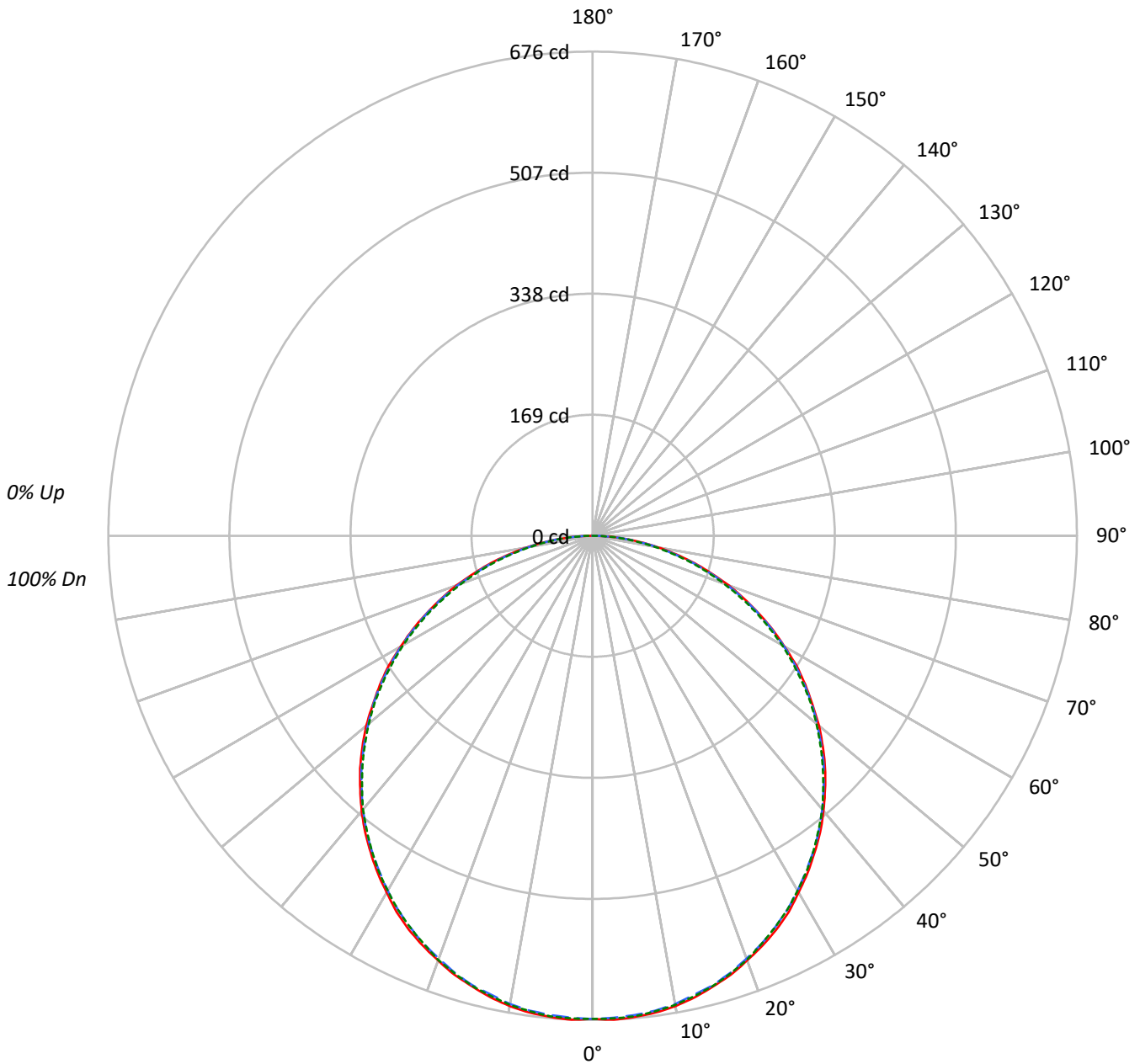
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1982.0 lumens
Efficiency: N/A
Efficacy: 133.9 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): 14.8
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

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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 | 23 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-----|-----|-----|
| 0° | 908 | 908 | 908 |
| 5° | 911 | 907 | 910 |
| 10° | 911 | 907 | 908 |
| 15° | 907 | 905 | 906 |
| 20° | 903 | 899 | 902 |
| 25° | 901 | 895 | 895 |
| 30° | 893 | 889 | 889 |
| 35° | 887 | 883 | 883 |
| 40° | 881 | 876 | 876 |
| 45° | 873 | 868 | 864 |
| 50° | 864 | 856 | 854 |
| 55° | 850 | 845 | 839 |
| 60° | 832 | 830 | 822 |
| 65° | 812 | 809 | 797 |
| 70° | 795 | 779 | 764 |
| 75° | 764 | 743 | 728 |
| 80° | 719 | 704 | 674 |
| 85° | 656 | 642 | 611 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.9 | 3.2 |
| 10°-20° | 183.3 | 9.2 |
| 20°-30° | 278.1 | 14.0 |
| 30°-40° | 336.5 | 17.0 |
| 40°-50° | 351.5 | 17.7 |
| 50°-60° | 321.6 | 16.2 |
| 60°-70° | 250.3 | 12.6 |
| 70°-80° | 150.8 | 7.6 |
| 80°-90° | 46.0 | 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° | 525.3 | 26.5 |
| 0°-40° | 861.8 | 43.5 |
| 0°-60° | 1534.9 | 77.4 |
| 0°-90° | 1982.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1982.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 674 | 674 | 674 | 674 | 674 | |
| 5° | 674 | 673 | 672 | 672 | 674 | 64 |
| 15° | 651 | 649 | 649 | 648 | 650 | 184 |
| 25° | 607 | 604 | 603 | 602 | 603 | 279 |
| 35° | 540 | 538 | 537 | 537 | 537 | 338 |
| 45° | 459 | 456 | 456 | 454 | 454 | 354 |
| 55° | 362 | 361 | 360 | 358 | 358 | 324 |
| 65° | 255 | 255 | 254 | 250 | 250 | 253 |
| 75° | 147 | 145 | 143 | 140 | 140 | 155 |
| 85° | 42 | 42 | 42 | 40 | 40 | 47 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 674.5 | 674.5 | 674.5 | 674.5 | 674.5 |
| 2.5° | 676.4 | 674.5 | 673.5 | 673.5 | 674.5 |
| 5° | 674.5 | 672.6 | 671.6 | 671.6 | 673.5 |
| 7.5° | 671.6 | 668.7 | 668.7 | 667.7 | 669.7 |
| 10° | 666.8 | 663.9 | 663.9 | 662.9 | 664.8 |
| 12.5° | 660.0 | 657.1 | 656.1 | 656.1 | 658.1 |
| 15° | 651.3 | 649.4 | 649.4 | 648.4 | 650.3 |
| 17.5° | 642.6 | 639.7 | 639.7 | 638.7 | 640.7 |
| 20° | 631.0 | 629.1 | 628.1 | 628.1 | 630.0 |
| 22.5° | 619.4 | 617.5 | 616.5 | 616.5 | 616.5 |
| 25° | 606.9 | 604.0 | 603.0 | 602.0 | 603.0 |
| 27.5° | 592.4 | 588.5 | 588.5 | 587.5 | 588.5 |
| 30° | 575.0 | 573.0 | 572.1 | 571.1 | 572.1 |
| 32.5° | 558.5 | 555.6 | 554.7 | 555.6 | 555.6 |
| 35° | 540.2 | 538.2 | 537.3 | 537.3 | 537.3 |
| 37.5° | 521.8 | 518.9 | 518.9 | 518.0 | 518.0 |
| 40° | 501.5 | 499.6 | 498.6 | 498.6 | 498.6 |
| 42.5° | 480.3 | 478.3 | 477.4 | 476.4 | 476.4 |
| 45° | 459.0 | 456.1 | 456.1 | 454.2 | 454.2 |
| 47.5° | 435.8 | 433.9 | 432.9 | 431.0 | 431.0 |
| 50° | 412.6 | 410.7 | 408.8 | 408.8 | 407.8 |
| 52.5° | 386.5 | 386.5 | 385.6 | 383.6 | 383.6 |
| 55° | 362.4 | 361.4 | 360.4 | 357.5 | 357.5 |
| 57.5° | 337.2 | 336.3 | 334.3 | 331.5 | 331.5 |
| 60° | 309.2 | 309.2 | 308.3 | 304.4 | 305.4 |
| 62.5° | 283.1 | 282.2 | 281.2 | 278.3 | 277.3 |
| 65° | 255.1 | 255.1 | 254.1 | 250.3 | 250.3 |
| 67.5° | 228.1 | 228.1 | 226.1 | 222.3 | 222.3 |
| 70° | 202.0 | 199.1 | 198.1 | 195.2 | 194.2 |
| 72.5° | 173.0 | 172.0 | 170.1 | 167.2 | 167.2 |
| 75° | 146.9 | 144.9 | 143.0 | 140.1 | 140.1 |
| 77.5° | 118.9 | 116.9 | 115.0 | 114.0 | 112.1 |
| 80° | 92.8 | 91.8 | 90.8 | 87.9 | 87.0 |
| 82.5° | 66.7 | 65.7 | 64.7 | 63.8 | 62.8 |
| 85° | 42.5 | 41.6 | 41.6 | 39.6 | 39.6 |
| 87.5° | 18.4 | 19.3 | 17.4 | 18.4 | 17.4 |
| 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)