

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: P568377

Luminaire Tested: **22CGTX-25HE-L850**

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568377
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-25HE-L850
Description: 2X2 2500 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 5000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

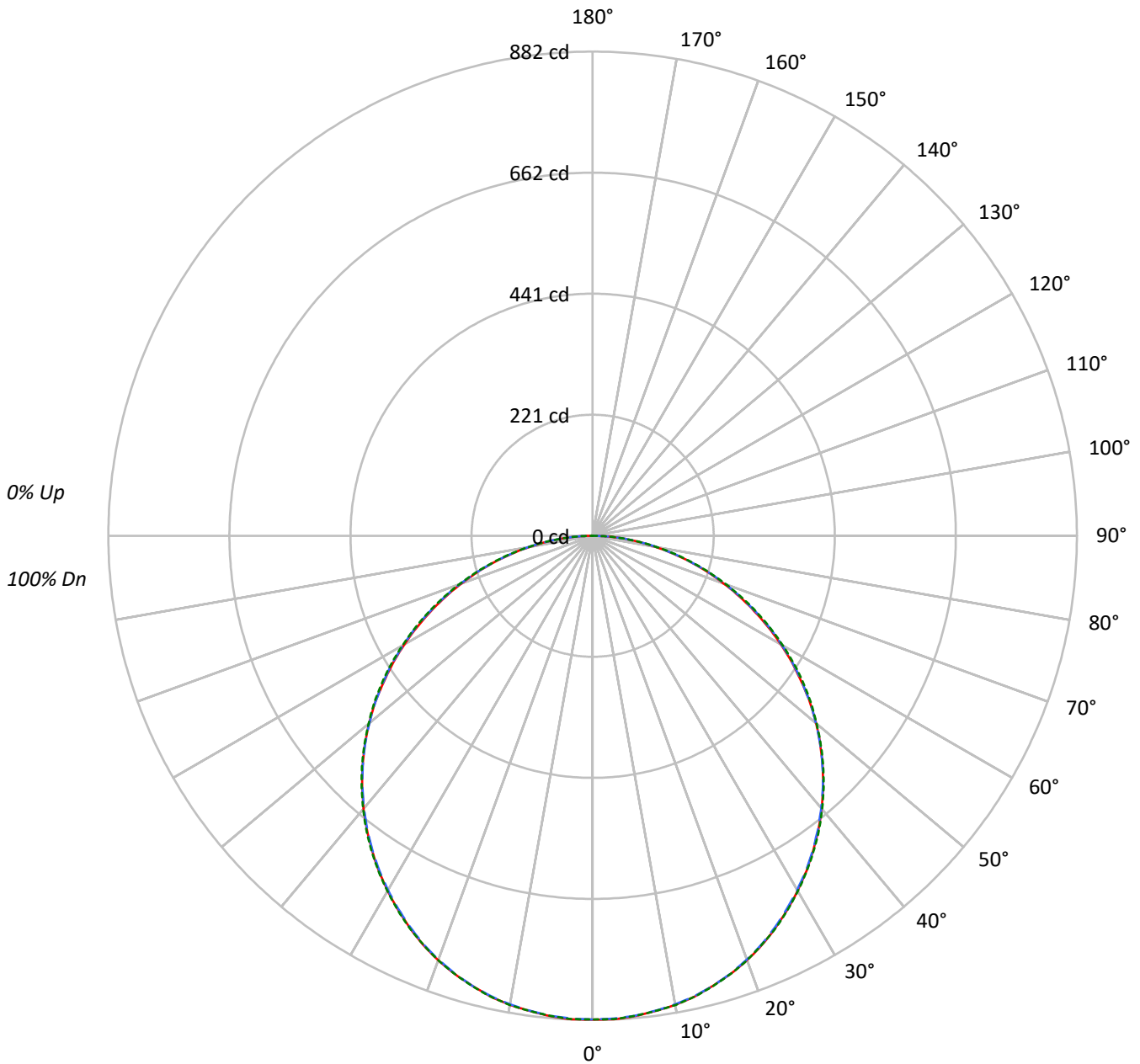
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2579.0 lumens
Efficiency: N/A
Efficacy: 134.3 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): 19.2
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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CATALOG NUMBER: 22CGTX-25HE-L850

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|--|--|--|--|---|
| RF | 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 | 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° | 2371 | 2371 | 2371 |
| 5° | 2373 | 2371 | 2372 |
| 10° | 2371 | 2368 | 2372 |
| 15° | 2363 | 2363 | 2366 |
| 20° | 2356 | 2353 | 2356 |
| 25° | 2340 | 2335 | 2341 |
| 30° | 2321 | 2315 | 2323 |
| 35° | 2301 | 2296 | 2305 |
| 40° | 2279 | 2275 | 2284 |
| 45° | 2254 | 2253 | 2261 |
| 50° | 2224 | 2222 | 2230 |
| 55° | 2179 | 2185 | 2200 |
| 60° | 2131 | 2141 | 2155 |
| 65° | 2069 | 2083 | 2099 |
| 70° | 1997 | 2017 | 2035 |
| 75° | 1917 | 1931 | 1954 |
| 80° | 1804 | 1824 | 1836 |
| 85° | 1639 | 1655 | 1680 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 83.4 | 3.2 |
| 10°-20° | 239.4 | 9.3 |
| 20°-30° | 362.8 | 14.1 |
| 30°-40° | 438.1 | 17.0 |
| 40°-50° | 457.1 | 17.7 |
| 50°-60° | 416.9 | 16.2 |
| 60°-70° | 324.0 | 12.6 |
| 70°-80° | 196.6 | 7.6 |
| 80°-90° | 60.6 | 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° | 685.6 | 26.6 |
| 0°-40° | 1123.8 | 43.6 |
| 0°-60° | 1997.8 | 77.5 |
| 0°-90° | 2579.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2579.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 881 | 881 | 881 | 881 | 881 | |
| 5° | 879 | 877 | 878 | 877 | 878 | 83 |
| 15° | 848 | 848 | 848 | 848 | 849 | 240 |
| 25° | 788 | 786 | 786 | 788 | 789 | 363 |
| 35° | 700 | 699 | 699 | 702 | 702 | 438 |
| 45° | 592 | 592 | 592 | 594 | 594 | 457 |
| 55° | 464 | 465 | 466 | 467 | 469 | 416 |
| 65° | 325 | 326 | 327 | 328 | 330 | 322 |
| 75° | 184 | 184 | 186 | 188 | 188 | 195 |
| 85° | 53 | 54 | 54 | 55 | 54 | 60 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 881.2 | 881.2 | 881.2 | 881.2 | 881.2 |
| 2.5° | 881.6 | 880.3 | 880.3 | 879.9 | 881.2 |
| 5° | 878.6 | 877.2 | 877.7 | 877.2 | 878.1 |
| 7.5° | 873.3 | 872.4 | 872.8 | 872.4 | 873.3 |
| 10° | 867.6 | 866.7 | 866.7 | 866.7 | 868.0 |
| 12.5° | 859.7 | 858.8 | 858.8 | 858.8 | 859.7 |
| 15° | 848.3 | 848.3 | 848.3 | 848.3 | 849.1 |
| 17.5° | 836.8 | 835.5 | 836.0 | 835.5 | 836.8 |
| 20° | 822.8 | 821.0 | 821.5 | 821.5 | 822.8 |
| 22.5° | 806.6 | 804.8 | 805.2 | 805.2 | 806.1 |
| 25° | 788.1 | 786.4 | 786.4 | 787.7 | 788.6 |
| 27.5° | 767.9 | 766.6 | 766.2 | 768.4 | 768.8 |
| 30° | 746.8 | 746.0 | 745.1 | 747.3 | 747.7 |
| 32.5° | 724.4 | 723.6 | 723.1 | 725.3 | 725.3 |
| 35° | 700.3 | 699.4 | 699.0 | 701.6 | 701.6 |
| 37.5° | 675.3 | 674.8 | 674.0 | 676.6 | 677.0 |
| 40° | 648.9 | 648.1 | 647.6 | 650.2 | 650.2 |
| 42.5° | 621.3 | 620.4 | 620.8 | 623.0 | 622.6 |
| 45° | 592.3 | 591.9 | 591.9 | 594.5 | 594.0 |
| 47.5° | 562.4 | 561.6 | 562.0 | 564.6 | 563.8 |
| 50° | 531.3 | 530.4 | 530.8 | 533.5 | 532.6 |
| 52.5° | 499.2 | 498.3 | 499.2 | 501.8 | 501.8 |
| 55° | 464.5 | 465.4 | 465.8 | 467.2 | 468.9 |
| 57.5° | 430.7 | 431.2 | 432.9 | 433.8 | 435.1 |
| 60° | 396.0 | 396.9 | 397.8 | 399.5 | 400.4 |
| 62.5° | 360.5 | 361.8 | 364.4 | 364.4 | 365.3 |
| 65° | 324.9 | 325.8 | 327.1 | 328.4 | 329.7 |
| 67.5° | 289.8 | 290.2 | 292.4 | 292.9 | 294.2 |
| 70° | 253.8 | 254.2 | 256.4 | 256.8 | 258.6 |
| 72.5° | 219.5 | 219.1 | 220.8 | 223.0 | 223.0 |
| 75° | 184.4 | 184.0 | 185.7 | 187.5 | 187.9 |
| 77.5° | 150.2 | 149.7 | 151.0 | 153.2 | 153.2 |
| 80° | 116.4 | 117.2 | 117.7 | 119.4 | 118.5 |
| 82.5° | 83.9 | 84.3 | 84.7 | 86.1 | 85.2 |
| 85° | 53.1 | 53.6 | 53.6 | 54.9 | 54.4 |
| 87.5° | 25.0 | 24.6 | 24.6 | 25.5 | 25.0 |
| 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)