

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: P412707

Luminaire Tested: **22PD-25-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-25-PP3-L850
Description: 2500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

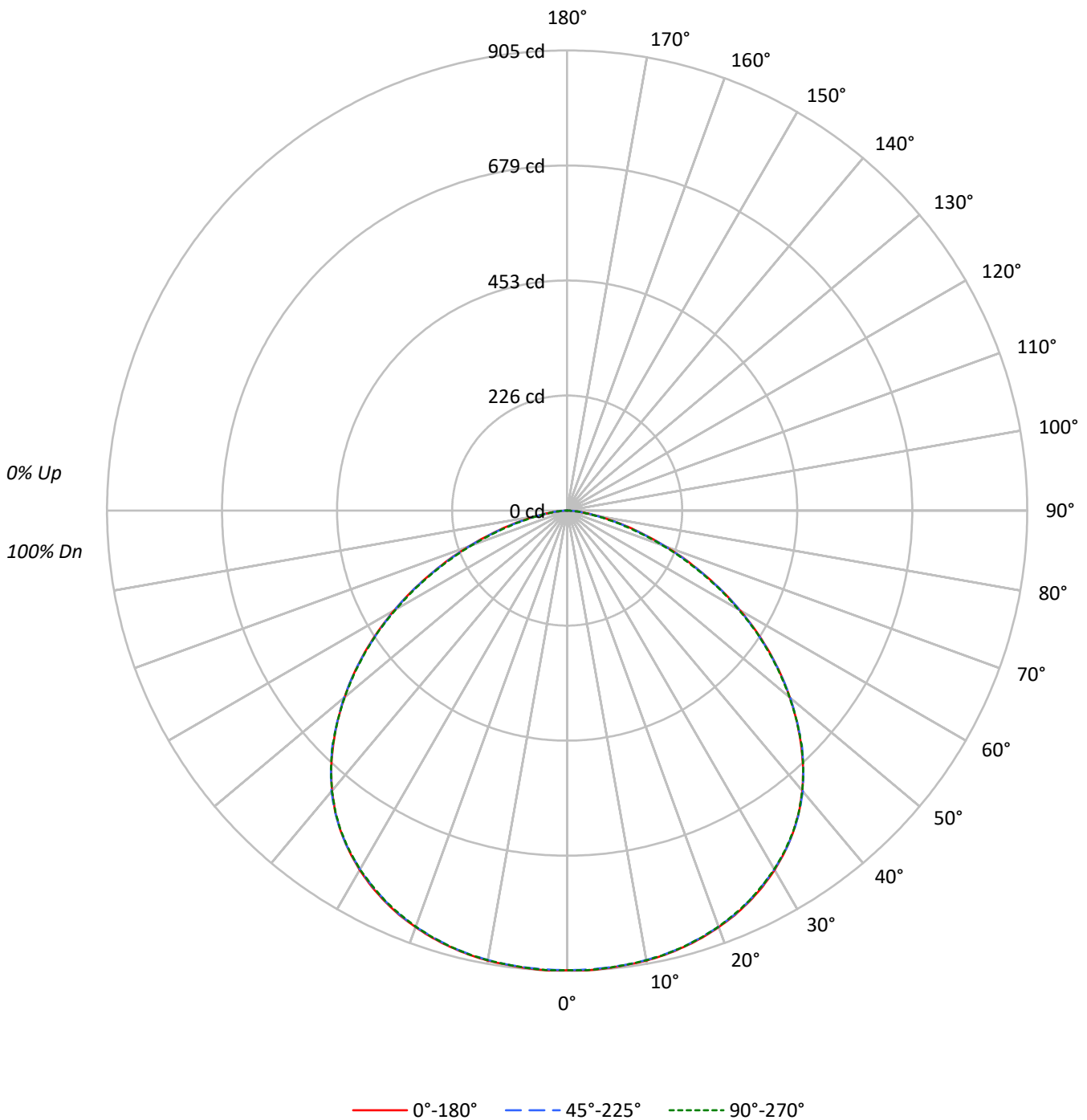
Lumens per Lamp: N/A
Luminaire Lumens: 2594.0 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 87 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 63 | 57 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 58 | 54 | 52 |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 47 | 57 | 51 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 48 | 42 | 55 | 48 | 42 | 53 | 47 | 42 | 52 | 46 | 41 | 39 |
| 7 | 66 | 52 | 44 | 38 | 64 | 52 | 43 | 37 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 |
| 8 | 61 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 28 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2433 | 2433 | 2433 |
| 5° | 2441 | 2437 | 2439 |
| 10° | 2456 | 2452 | 2454 |
| 15° | 2475 | 2472 | 2472 |
| 20° | 2497 | 2494 | 2493 |
| 25° | 2519 | 2514 | 2514 |
| 30° | 2536 | 2532 | 2531 |
| 35° | 2544 | 2544 | 2541 |
| 40° | 2527 | 2532 | 2527 |
| 45° | 2477 | 2484 | 2481 |
| 50° | 2394 | 2398 | 2391 |
| 55° | 2279 | 2273 | 2269 |
| 60° | 2115 | 2110 | 2094 |
| 65° | 1889 | 1887 | 1866 |
| 70° | 1615 | 1606 | 1570 |
| 75° | 1287 | 1249 | 1211 |
| 80° | 917 | 899 | 851 |
| 85° | 596 | 596 | 577 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.0 | 3.3 |
| 10°-20° | 250.8 | 9.7 |
| 20°-30° | 390.5 | 15.1 |
| 30°-40° | 483.4 | 18.6 |
| 40°-50° | 501.2 | 19.3 |
| 50°-60° | 432.0 | 16.7 |
| 60°-70° | 293.7 | 11.3 |
| 70°-80° | 131.4 | 5.1 |
| 80°-90° | 25.0 | 1.0 |
| 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° | 727.3 | 28.0 |
| 0°-40° | 1210.7 | 46.7 |
| 0°-60° | 2143.9 | 82.6 |
| 0°-90° | 2594.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2594.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 904 | 904 | 904 | 904 | 904 | |
| 5° | 904 | 902 | 902 | 902 | 903 | 86 |
| 15° | 888 | 887 | 888 | 887 | 888 | 251 |
| 25° | 848 | 847 | 847 | 846 | 847 | 391 |
| 35° | 774 | 773 | 774 | 773 | 773 | 484 |
| 45° | 651 | 650 | 653 | 651 | 652 | 501 |
| 55° | 486 | 484 | 484 | 484 | 484 | 433 |
| 65° | 297 | 299 | 296 | 296 | 293 | 295 |
| 75° | 124 | 124 | 120 | 120 | 116 | 133 |
| 85° | 19 | 20 | 19 | 19 | 19 | 25 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 22PD-25-PP3-L850

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 904.1 | 904.1 | 904.1 | 904.1 | 904.1 |
| 2.5° | 905.3 | 903.5 | 903.5 | 903.8 | 904.7 |
| 5° | 903.5 | 901.7 | 902.3 | 902.0 | 902.9 |
| 7.5° | 901.1 | 899.6 | 900.5 | 899.9 | 900.5 |
| 10° | 898.7 | 897.2 | 897.5 | 897.2 | 898.1 |
| 12.5° | 894.5 | 892.7 | 893.3 | 893.3 | 893.6 |
| 15° | 888.4 | 886.9 | 887.5 | 886.9 | 887.5 |
| 17.5° | 881.2 | 879.4 | 879.7 | 879.4 | 880.0 |
| 20° | 871.8 | 870.6 | 870.9 | 870.3 | 870.6 |
| 22.5° | 861.3 | 859.7 | 860.1 | 859.4 | 859.4 |
| 25° | 848.3 | 847.1 | 846.8 | 846.5 | 846.8 |
| 27.5° | 833.2 | 831.7 | 831.7 | 831.4 | 831.4 |
| 30° | 816.3 | 814.8 | 814.8 | 814.5 | 814.5 |
| 32.5° | 796.4 | 795.8 | 796.1 | 795.4 | 795.1 |
| 35° | 774.3 | 773.4 | 774.3 | 773.1 | 773.4 |
| 37.5° | 748.7 | 747.5 | 749.3 | 748.1 | 748.4 |
| 40° | 719.4 | 718.8 | 720.9 | 720.0 | 719.4 |
| 42.5° | 686.8 | 686.8 | 687.7 | 688.0 | 687.4 |
| 45° | 650.8 | 650.2 | 652.7 | 651.2 | 651.8 |
| 47.5° | 612.2 | 611.3 | 613.1 | 612.8 | 612.5 |
| 50° | 571.8 | 571.2 | 572.7 | 571.2 | 571.2 |
| 52.5° | 529.8 | 529.5 | 529.8 | 528.3 | 528.0 |
| 55° | 485.7 | 483.9 | 484.5 | 483.6 | 483.6 |
| 57.5° | 439.8 | 437.7 | 438.0 | 437.7 | 438.0 |
| 60° | 393.0 | 392.4 | 392.1 | 390.6 | 389.1 |
| 62.5° | 345.0 | 345.7 | 345.3 | 343.2 | 341.7 |
| 65° | 296.7 | 299.2 | 296.4 | 295.5 | 293.1 |
| 67.5° | 251.2 | 252.1 | 250.3 | 248.1 | 245.4 |
| 70° | 205.3 | 207.1 | 204.1 | 202.0 | 199.5 |
| 72.5° | 161.5 | 162.7 | 160.0 | 158.8 | 155.8 |
| 75° | 123.8 | 124.1 | 120.1 | 119.5 | 116.5 |
| 77.5° | 88.1 | 89.4 | 86.3 | 86.3 | 83.3 |
| 80° | 59.2 | 61.3 | 58.0 | 57.1 | 54.9 |
| 82.5° | 37.1 | 37.4 | 36.5 | 35.6 | 34.7 |
| 85° | 19.3 | 19.9 | 19.3 | 18.7 | 18.7 |
| 87.5° | 7.2 | 7.5 | 7.2 | 6.9 | 7.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)