

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: P412376

Luminaire Tested: **22PD-30-PB1-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-30-PB1-L930
Description: 3000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

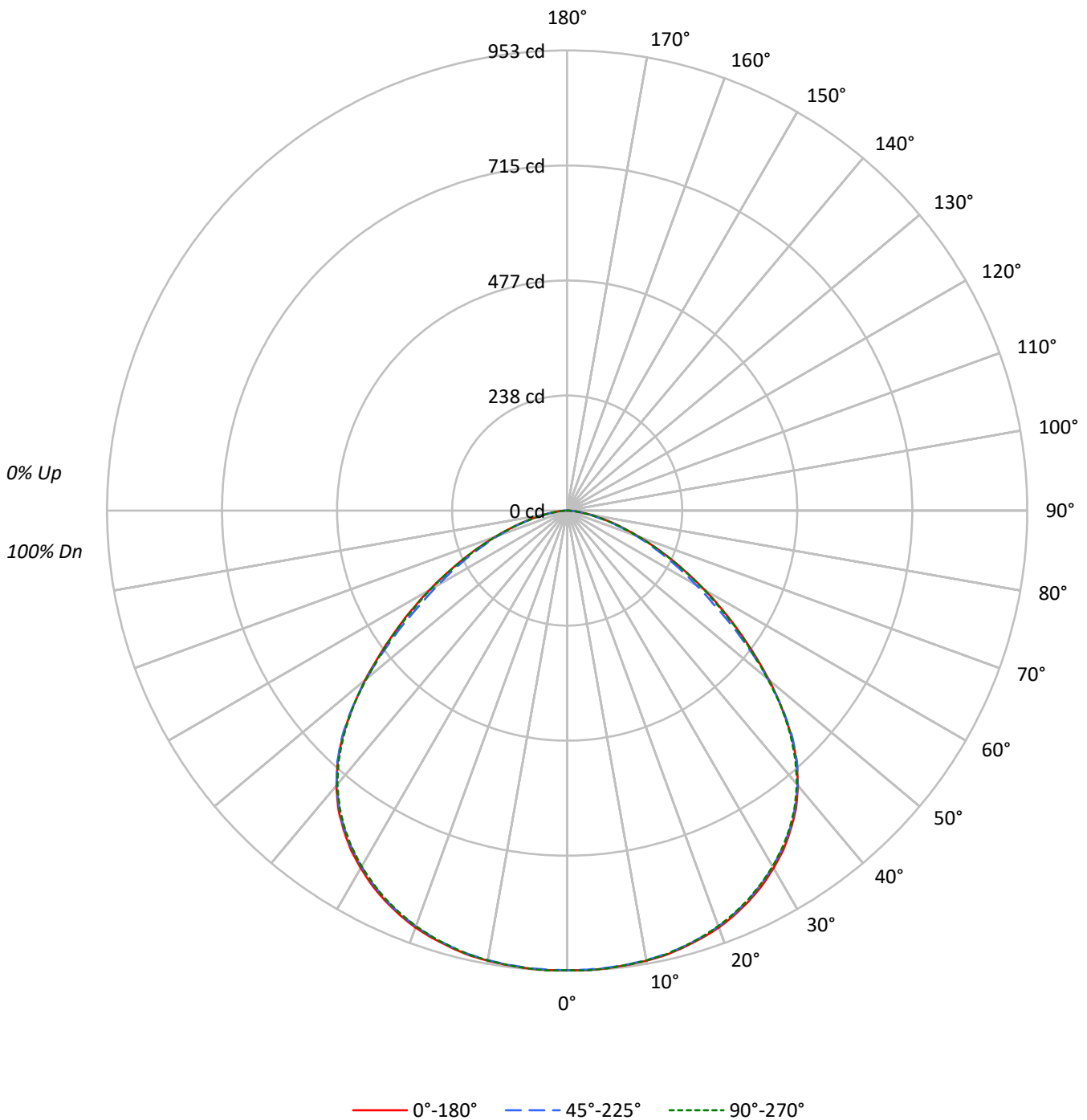
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2499.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.9
Input Voltage (V): NR
Input Current (Ain): 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 | 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 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | | | | | 86 | | | | |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 78 | 76 | | | | | 73 | | | | |
| 3 | 92 | 83 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 76 | 70 | 66 | 73 | 69 | 65 | | | | | 63 | | | | |
| 4 | 85 | 74 | 65 | 59 | 83 | 72 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 56 | | | | | 54 | | | | |
| 5 | 78 | 66 | 58 | 51 | 76 | 65 | 57 | 51 | 63 | 56 | 50 | 61 | 55 | 50 | 59 | 54 | 49 | | | | | 47 | | | | |
| 6 | 72 | 60 | 51 | 45 | 71 | 59 | 51 | 45 | 57 | 50 | 44 | 55 | 49 | 44 | 54 | 48 | 44 | | | | | 42 | | | | |
| 7 | 67 | 54 | 46 | 40 | 66 | 53 | 45 | 40 | 52 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | | | | | 37 | | | | |
| 8 | 63 | 50 | 41 | 36 | 61 | 49 | 41 | 36 | 48 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | | | | | 33 | | | | |
| 9 | 59 | 46 | 38 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | | | | | 30 | | | | |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | | | | | 27 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2562 | 2562 | 2562 |
| 5° | 2570 | 2567 | 2571 |
| 10° | 2587 | 2583 | 2585 |
| 15° | 2608 | 2603 | 2603 |
| 20° | 2631 | 2624 | 2622 |
| 25° | 2648 | 2640 | 2638 |
| 30° | 2657 | 2646 | 2644 |
| 35° | 2651 | 2644 | 2639 |
| 40° | 2612 | 2609 | 2600 |
| 45° | 2497 | 2504 | 2485 |
| 50° | 2286 | 2273 | 2271 |
| 55° | 2031 | 1960 | 2017 |
| 60° | 1771 | 1663 | 1760 |
| 65° | 1501 | 1421 | 1494 |
| 70° | 1242 | 1190 | 1230 |
| 75° | 1003 | 940 | 964 |
| 80° | 725 | 702 | 697 |
| 85° | 472 | 472 | 454 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.6 | 3.6 |
| 10°-20° | 264.2 | 10.6 |
| 20°-30° | 409.9 | 16.4 |
| 30°-40° | 502.6 | 20.1 |
| 40°-50° | 502.4 | 20.1 |
| 50°-60° | 380.6 | 15.2 |
| 60°-70° | 228.3 | 9.1 |
| 70°-80° | 100.5 | 4.0 |
| 80°-90° | 19.9 | 0.8 |
| 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° | 764.6 | 30.6 |
| 0°-40° | 1267.2 | 50.7 |
| 0°-60° | 2150.3 | 86.0 |
| 0°-90° | 2499.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2499.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 952 | 952 | 952 | 952 | 952 | |
| 5° | 951 | 950 | 950 | 950 | 952 | 91 |
| 15° | 936 | 935 | 934 | 934 | 934 | 265 |
| 25° | 892 | 890 | 889 | 888 | 888 | 411 |
| 35° | 807 | 807 | 805 | 804 | 803 | 504 |
| 45° | 656 | 657 | 658 | 656 | 653 | 502 |
| 55° | 433 | 424 | 418 | 423 | 430 | 388 |
| 65° | 236 | 228 | 223 | 227 | 235 | 236 |
| 75° | 96 | 94 | 90 | 92 | 93 | 103 |
| 85° | 15 | 16 | 15 | 15 | 15 | 20 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 |
| 2.5° | 952.7 | 951.3 | 951.6 | 951.6 | 953.3 |
| 5° | 951.3 | 950.1 | 950.4 | 950.1 | 951.6 |
| 7.5° | 949.2 | 948.0 | 948.3 | 948.0 | 948.9 |
| 10° | 946.6 | 945.4 | 945.4 | 944.8 | 946.0 |
| 12.5° | 943.0 | 941.6 | 941.0 | 940.7 | 941.6 |
| 15° | 936.0 | 935.1 | 934.5 | 933.9 | 934.5 |
| 17.5° | 928.3 | 926.8 | 926.3 | 925.1 | 926.3 |
| 20° | 918.9 | 916.8 | 916.3 | 915.4 | 915.7 |
| 22.5° | 906.5 | 904.8 | 903.9 | 902.4 | 903.0 |
| 25° | 891.8 | 890.1 | 889.2 | 887.7 | 888.3 |
| 27.5° | 874.8 | 873.6 | 871.5 | 870.3 | 870.6 |
| 30° | 855.0 | 853.9 | 851.5 | 850.9 | 850.9 |
| 32.5° | 833.3 | 831.8 | 829.7 | 829.1 | 828.8 |
| 35° | 807.1 | 806.8 | 804.7 | 804.1 | 803.2 |
| 37.5° | 778.5 | 777.9 | 775.6 | 775.0 | 774.1 |
| 40° | 743.5 | 742.9 | 742.6 | 741.4 | 740.2 |
| 42.5° | 702.9 | 703.7 | 704.3 | 702.0 | 699.6 |
| 45° | 656.1 | 656.9 | 658.1 | 656.4 | 653.1 |
| 47.5° | 601.3 | 604.9 | 603.1 | 604.3 | 601.0 |
| 50° | 546.0 | 546.0 | 543.0 | 544.2 | 542.5 |
| 52.5° | 488.0 | 483.3 | 479.8 | 482.1 | 484.5 |
| 55° | 433.0 | 423.5 | 417.7 | 423.2 | 430.0 |
| 57.5° | 380.3 | 369.1 | 358.2 | 367.0 | 375.3 |
| 60° | 329.1 | 316.1 | 309.0 | 315.5 | 327.0 |
| 62.5° | 280.5 | 271.1 | 264.0 | 269.0 | 278.7 |
| 65° | 235.8 | 227.5 | 223.1 | 226.9 | 234.6 |
| 67.5° | 194.8 | 189.3 | 184.8 | 188.1 | 194.0 |
| 70° | 157.8 | 156.3 | 151.3 | 152.8 | 156.3 |
| 72.5° | 123.9 | 123.6 | 119.2 | 120.4 | 122.4 |
| 75° | 96.5 | 94.5 | 90.4 | 91.8 | 92.7 |
| 77.5° | 68.3 | 69.2 | 65.3 | 66.2 | 66.2 |
| 80° | 46.8 | 48.3 | 45.3 | 44.7 | 45.0 |
| 82.5° | 29.7 | 29.7 | 29.4 | 29.1 | 28.3 |
| 85° | 15.3 | 15.9 | 15.3 | 14.7 | 14.7 |
| 87.5° | 5.9 | 5.9 | 5.9 | 5.6 | 5.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)