

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: P413178

Luminaire Tested: **24PD-30-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-30-PC3-L935
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

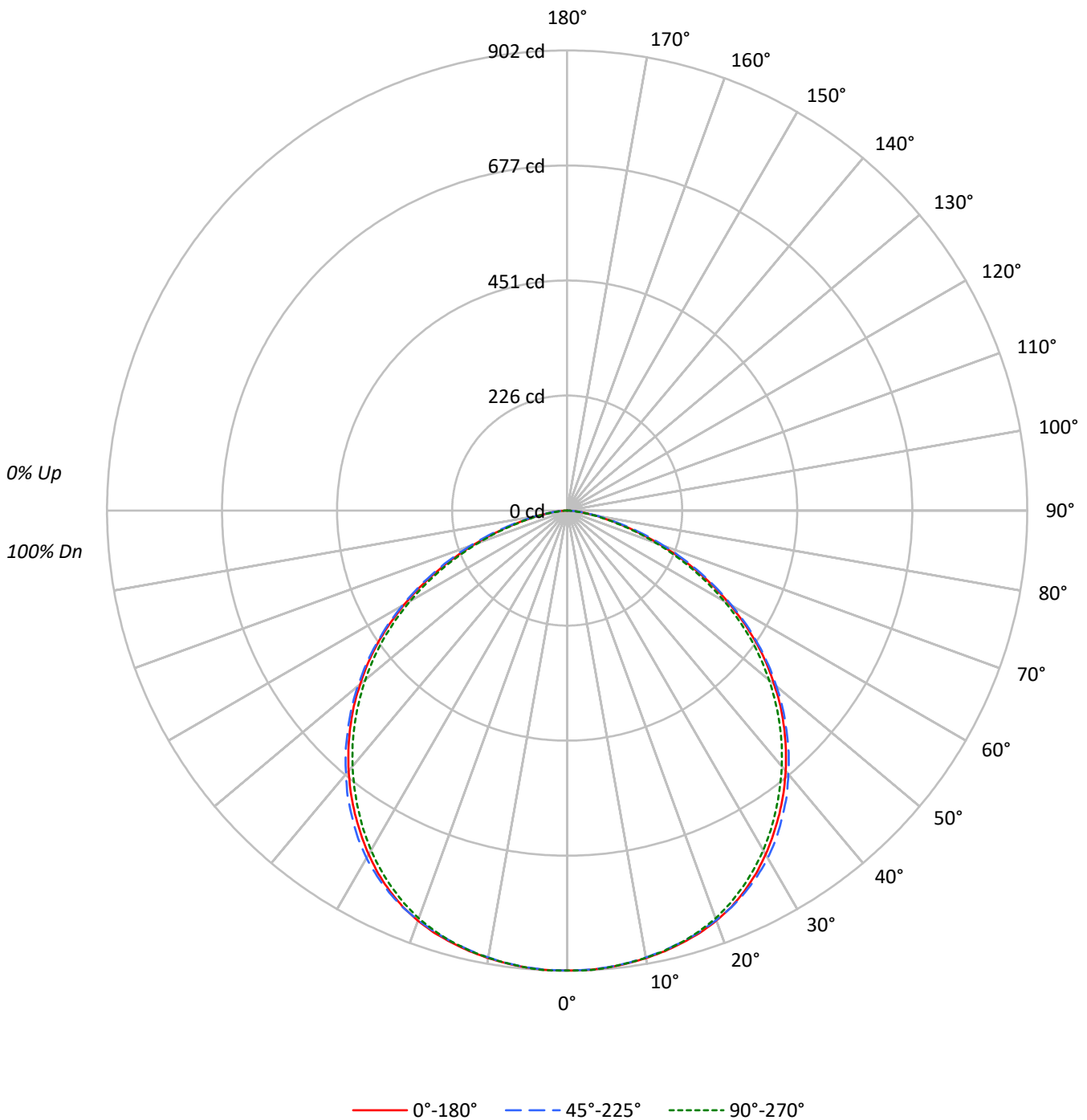
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2464.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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 | 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 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 47 | 42 | 37 | 35 |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 52 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1213 | 1213 | 1213 |
| 5° | 1214 | 1214 | 1215 |
| 10° | 1217 | 1215 | 1216 |
| 15° | 1221 | 1218 | 1219 |
| 20° | 1225 | 1223 | 1218 |
| 25° | 1222 | 1226 | 1209 |
| 30° | 1209 | 1222 | 1194 |
| 35° | 1191 | 1207 | 1173 |
| 40° | 1171 | 1185 | 1150 |
| 45° | 1144 | 1157 | 1120 |
| 50° | 1109 | 1121 | 1082 |
| 55° | 1063 | 1072 | 1031 |
| 60° | 992 | 1004 | 958 |
| 65° | 894 | 917 | 859 |
| 70° | 759 | 793 | 729 |
| 75° | 588 | 631 | 561 |
| 80° | 437 | 456 | 397 |
| 85° | 270 | 289 | 250 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.5 | 3.5 |
| 10°-20° | 247.2 | 10.0 |
| 20°-30° | 378.6 | 15.4 |
| 30°-40° | 455.5 | 18.5 |
| 40°-50° | 464.4 | 18.8 |
| 50°-60° | 402.6 | 16.3 |
| 60°-70° | 279.1 | 11.3 |
| 70°-80° | 127.5 | 5.2 |
| 80°-90° | 23.5 | 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° | 711.3 | 28.9 |
| 0°-40° | 1166.8 | 47.4 |
| 0°-60° | 2033.8 | 82.5 |
| 0°-90° | 2464.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2464.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 902 | 902 | 902 | 902 | 902 | |
| 5° | 899 | 899 | 899 | 898 | 900 | 86 |
| 15° | 876 | 876 | 875 | 874 | 875 | 248 |
| 25° | 823 | 825 | 826 | 819 | 814 | 379 |
| 35° | 725 | 733 | 735 | 725 | 714 | 454 |
| 45° | 601 | 609 | 608 | 600 | 589 | 463 |
| 55° | 453 | 456 | 457 | 446 | 440 | 404 |
| 65° | 281 | 287 | 288 | 278 | 270 | 278 |
| 75° | 113 | 119 | 121 | 117 | 108 | 124 |
| 85° | 18 | 18 | 19 | 18 | 16 | 24 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 901.5 | 901.5 | 901.5 | 901.5 | 901.5 |
| 2.5° | 901.5 | 901.5 | 901.0 | 900.5 | 902.0 |
| 5° | 899.2 | 899.2 | 898.7 | 898.2 | 899.5 |
| 7.5° | 895.7 | 895.5 | 895.0 | 894.5 | 895.2 |
| 10° | 890.7 | 890.5 | 889.5 | 889.2 | 890.2 |
| 12.5° | 884.5 | 884.2 | 882.7 | 882.7 | 883.5 |
| 15° | 876.5 | 876.2 | 874.7 | 874.0 | 875.0 |
| 17.5° | 867.5 | 867.2 | 865.5 | 863.5 | 864.0 |
| 20° | 855.5 | 855.5 | 854.3 | 851.3 | 850.5 |
| 22.5° | 841.0 | 841.8 | 841.8 | 836.0 | 833.8 |
| 25° | 822.8 | 825.0 | 825.8 | 818.6 | 814.3 |
| 27.5° | 802.1 | 805.6 | 807.6 | 798.3 | 792.8 |
| 30° | 778.3 | 784.1 | 786.6 | 776.6 | 768.6 |
| 32.5° | 752.4 | 759.6 | 762.6 | 752.9 | 742.6 |
| 35° | 725.4 | 733.2 | 734.7 | 725.2 | 714.4 |
| 37.5° | 696.7 | 704.7 | 706.7 | 698.2 | 685.0 |
| 40° | 666.5 | 674.5 | 674.5 | 667.5 | 654.5 |
| 42.5° | 634.5 | 643.0 | 642.8 | 634.3 | 622.5 |
| 45° | 601.3 | 608.8 | 607.8 | 599.6 | 588.8 |
| 47.5° | 567.1 | 571.8 | 573.1 | 563.3 | 553.1 |
| 50° | 529.6 | 534.4 | 535.6 | 524.6 | 516.7 |
| 52.5° | 492.7 | 495.7 | 497.4 | 484.7 | 478.9 |
| 55° | 453.2 | 456.0 | 457.2 | 446.0 | 439.7 |
| 57.5° | 411.5 | 415.0 | 416.5 | 405.3 | 398.3 |
| 60° | 368.8 | 372.6 | 373.1 | 362.6 | 356.1 |
| 62.5° | 325.4 | 330.4 | 331.4 | 320.9 | 313.1 |
| 65° | 280.9 | 286.9 | 287.9 | 278.2 | 269.9 |
| 67.5° | 236.5 | 244.5 | 244.7 | 236.7 | 227.0 |
| 70° | 193.0 | 201.8 | 201.5 | 194.8 | 185.3 |
| 72.5° | 151.6 | 159.6 | 161.3 | 155.1 | 145.8 |
| 75° | 113.1 | 119.4 | 121.4 | 117.4 | 107.9 |
| 77.5° | 80.4 | 86.2 | 87.9 | 84.2 | 77.2 |
| 80° | 56.4 | 56.7 | 58.9 | 55.9 | 51.2 |
| 82.5° | 35.0 | 34.5 | 35.2 | 34.0 | 31.2 |
| 85° | 17.5 | 18.0 | 18.7 | 17.7 | 16.2 |
| 87.5° | 6.0 | 6.2 | 6.7 | 6.7 | 6.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)