

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: P412715

Luminaire Tested: **22PD-30-PP3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412715
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-30-PP3-L840
Description: 3000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

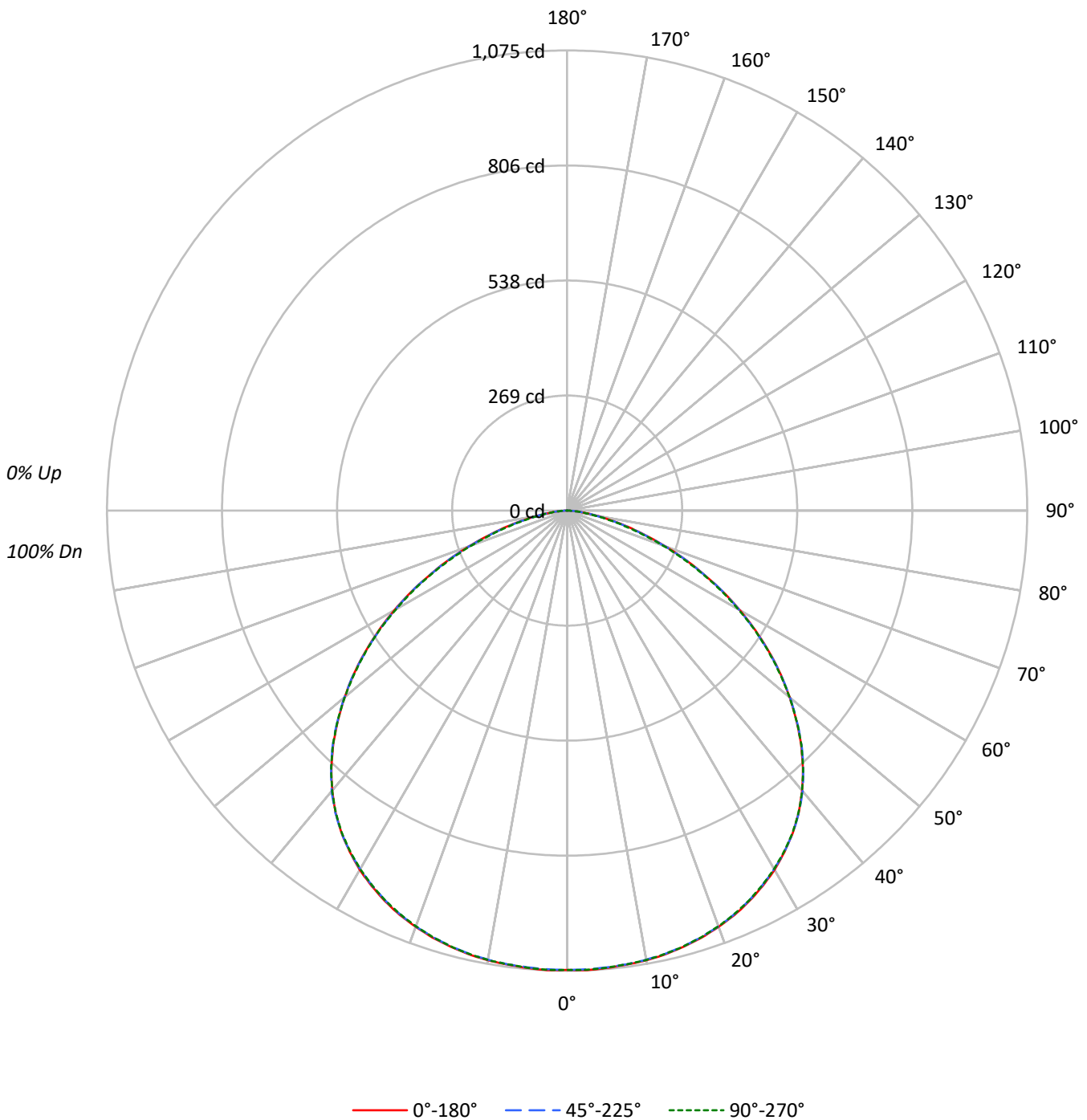
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3079.0 lumens
Efficiency: N/A
Efficacy: 123.7 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): 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 | 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° | 2888 | 2888 | 2888 |
| 5° | 2897 | 2893 | 2895 |
| 10° | 2915 | 2911 | 2913 |
| 15° | 2938 | 2935 | 2935 |
| 20° | 2963 | 2960 | 2959 |
| 25° | 2990 | 2984 | 2984 |
| 30° | 3011 | 3005 | 3004 |
| 35° | 3019 | 3019 | 3016 |
| 40° | 3000 | 3006 | 3000 |
| 45° | 2940 | 2948 | 2944 |
| 50° | 2841 | 2846 | 2838 |
| 55° | 2705 | 2698 | 2693 |
| 60° | 2511 | 2505 | 2486 |
| 65° | 2243 | 2241 | 2215 |
| 70° | 1917 | 1906 | 1863 |
| 75° | 1527 | 1483 | 1438 |
| 80° | 1088 | 1066 | 1010 |
| 85° | 707 | 707 | 685 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 102.1 | 3.3 |
| 10°-20° | 297.7 | 9.7 |
| 20°-30° | 463.5 | 15.1 |
| 30°-40° | 573.7 | 18.6 |
| 40°-50° | 594.9 | 19.3 |
| 50°-60° | 512.8 | 16.7 |
| 60°-70° | 348.6 | 11.3 |
| 70°-80° | 156.0 | 5.1 |
| 80°-90° | 29.7 | 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° | 863.3 | 28.0 |
| 0°-40° | 1437.0 | 46.7 |
| 0°-60° | 2544.7 | 82.6 |
| 0°-90° | 3079.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3079.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1073 | 1073 | 1073 | 1073 | 1073 | |
| 5° | 1072 | 1070 | 1071 | 1071 | 1072 | 102 |
| 15° | 1054 | 1053 | 1054 | 1053 | 1054 | 298 |
| 25° | 1007 | 1005 | 1005 | 1005 | 1005 | 464 |
| 35° | 919 | 918 | 919 | 918 | 918 | 574 |
| 45° | 772 | 772 | 775 | 773 | 774 | 595 |
| 55° | 576 | 574 | 575 | 574 | 574 | 514 |
| 65° | 352 | 355 | 352 | 351 | 348 | 350 |
| 75° | 147 | 147 | 143 | 142 | 138 | 158 |
| 85° | 23 | 24 | 23 | 22 | 22 | 30 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1073.2 | 1073.2 | 1073.2 | 1073.2 | 1073.2 |
| 2.5° | 1074.6 | 1072.5 | 1072.5 | 1072.8 | 1073.9 |
| 5° | 1072.5 | 1070.3 | 1071.0 | 1070.7 | 1071.7 |
| 7.5° | 1069.6 | 1067.8 | 1068.9 | 1068.2 | 1068.9 |
| 10° | 1066.7 | 1064.9 | 1065.3 | 1064.9 | 1066.0 |
| 12.5° | 1061.7 | 1059.6 | 1060.3 | 1060.3 | 1060.6 |
| 15° | 1054.5 | 1052.7 | 1053.5 | 1052.7 | 1053.5 |
| 17.5° | 1045.9 | 1043.8 | 1044.1 | 1043.8 | 1044.5 |
| 20° | 1034.8 | 1033.4 | 1033.8 | 1033.0 | 1033.4 |
| 22.5° | 1022.3 | 1020.5 | 1020.9 | 1020.1 | 1020.1 |
| 25° | 1006.9 | 1005.4 | 1005.1 | 1004.7 | 1005.1 |
| 27.5° | 989.0 | 987.2 | 987.2 | 986.8 | 986.8 |
| 30° | 968.9 | 967.1 | 967.1 | 966.7 | 966.7 |
| 32.5° | 945.2 | 944.5 | 944.9 | 944.2 | 943.8 |
| 35° | 919.1 | 918.0 | 919.1 | 917.7 | 918.0 |
| 37.5° | 888.6 | 887.2 | 889.4 | 887.9 | 888.3 |
| 40° | 853.9 | 853.2 | 855.7 | 854.6 | 853.9 |
| 42.5° | 815.2 | 815.2 | 816.3 | 816.6 | 815.9 |
| 45° | 772.5 | 771.8 | 774.7 | 772.9 | 773.6 |
| 47.5° | 726.7 | 725.6 | 727.7 | 727.4 | 727.0 |
| 50° | 678.7 | 677.9 | 679.7 | 677.9 | 677.9 |
| 52.5° | 628.9 | 628.5 | 628.9 | 627.1 | 626.7 |
| 55° | 576.5 | 574.4 | 575.1 | 574.0 | 574.0 |
| 57.5° | 522.1 | 519.6 | 519.9 | 519.6 | 519.9 |
| 60° | 466.5 | 465.8 | 465.5 | 463.7 | 461.9 |
| 62.5° | 409.6 | 410.3 | 409.9 | 407.4 | 405.6 |
| 65° | 352.2 | 355.1 | 351.9 | 350.8 | 347.9 |
| 67.5° | 298.1 | 299.2 | 297.0 | 294.5 | 291.3 |
| 70° | 243.7 | 245.8 | 242.2 | 239.7 | 236.8 |
| 72.5° | 191.7 | 193.1 | 189.9 | 188.5 | 184.9 |
| 75° | 146.9 | 147.3 | 142.6 | 141.9 | 138.3 |
| 77.5° | 104.6 | 106.1 | 102.5 | 102.5 | 98.9 |
| 80° | 70.2 | 72.7 | 68.8 | 67.7 | 65.2 |
| 82.5° | 44.1 | 44.4 | 43.4 | 42.3 | 41.2 |
| 85° | 22.9 | 23.6 | 22.9 | 22.2 | 22.2 |
| 87.5° | 8.6 | 9.0 | 8.6 | 8.2 | 8.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)