

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: P412379

Luminaire Tested: **22PD-30-PB1-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412379
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-L950
Description: 3000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

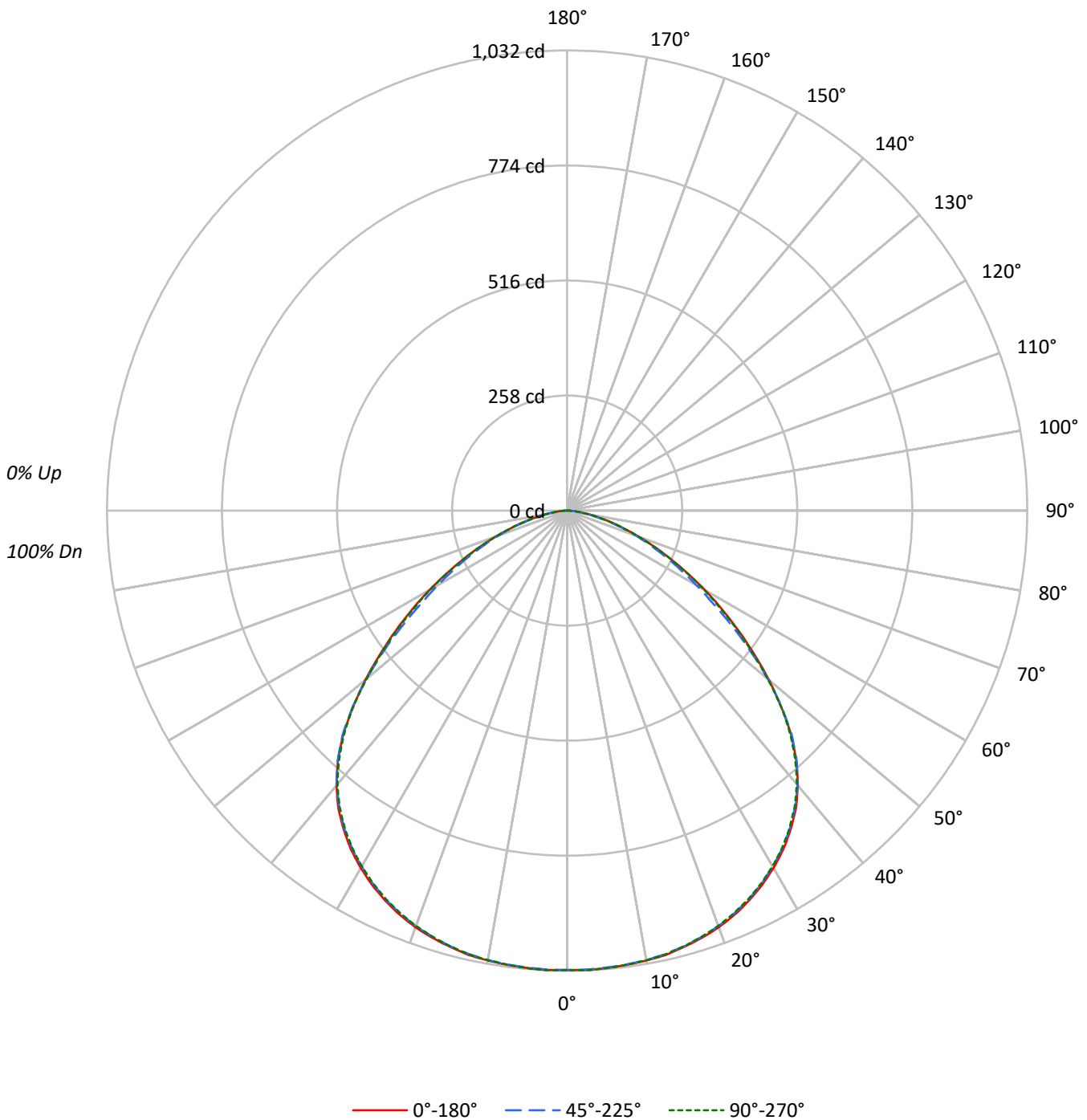
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2705.0 lumens
Efficiency: N/A
Efficacy: 108.6 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 | 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 | 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° | 2773 | 2773 | 2773 |
| 5° | 2781 | 2779 | 2782 |
| 10° | 2800 | 2796 | 2798 |
| 15° | 2822 | 2818 | 2818 |
| 20° | 2848 | 2840 | 2838 |
| 25° | 2866 | 2858 | 2855 |
| 30° | 2876 | 2864 | 2862 |
| 35° | 2870 | 2861 | 2856 |
| 40° | 2827 | 2824 | 2815 |
| 45° | 2702 | 2711 | 2691 |
| 50° | 2474 | 2461 | 2458 |
| 55° | 2199 | 2121 | 2184 |
| 60° | 1917 | 1800 | 1905 |
| 65° | 1625 | 1538 | 1617 |
| 70° | 1344 | 1289 | 1331 |
| 75° | 1087 | 1017 | 1044 |
| 80° | 786 | 761 | 755 |
| 85° | 513 | 513 | 491 |



TEST NUMBER: P412379

CATALOG NUMBER: 22PD-30-PB1-L950

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.0 | 3.6 |
| 10°-20° | 285.9 | 10.6 |
| 20°-30° | 443.7 | 16.4 |
| 30°-40° | 544.1 | 20.1 |
| 40°-50° | 543.9 | 20.1 |
| 50°-60° | 412.0 | 15.2 |
| 60°-70° | 247.1 | 9.1 |
| 70°-80° | 108.8 | 4.0 |
| 80°-90° | 21.6 | 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° | 827.6 | 30.6 |
| 0°-40° | 1371.7 | 50.7 |
| 0°-60° | 2327.5 | 86.0 |
| 0°-90° | 2705.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2705.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1030 | 1030 | 1030 | 1030 | 1030 | |
| 5° | 1030 | 1028 | 1029 | 1028 | 1030 | 98 |
| 15° | 1013 | 1012 | 1012 | 1011 | 1012 | 286 |
| 25° | 965 | 963 | 962 | 961 | 962 | 445 |
| 35° | 874 | 873 | 871 | 870 | 869 | 546 |
| 45° | 710 | 711 | 712 | 710 | 707 | 544 |
| 55° | 469 | 458 | 452 | 458 | 466 | 420 |
| 65° | 255 | 246 | 242 | 246 | 254 | 255 |
| 75° | 104 | 102 | 98 | 99 | 100 | 111 |
| 85° | 17 | 17 | 17 | 16 | 16 | 22 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P412379

CATALOG NUMBER: 22PD-30-PB1-L950

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1030.3 | 1030.3 | 1030.3 | 1030.3 | 1030.3 |
| 2.5° | 1031.3 | 1029.7 | 1030.0 | 1030.0 | 1031.9 |
| 5° | 1029.7 | 1028.4 | 1028.7 | 1028.4 | 1030.0 |
| 7.5° | 1027.5 | 1026.2 | 1026.5 | 1026.2 | 1027.1 |
| 10° | 1024.6 | 1023.3 | 1023.3 | 1022.7 | 1024.0 |
| 12.5° | 1020.8 | 1019.2 | 1018.5 | 1018.2 | 1019.2 |
| 15° | 1013.1 | 1012.2 | 1011.5 | 1010.9 | 1011.5 |
| 17.5° | 1004.8 | 1003.3 | 1002.6 | 1001.3 | 1002.6 |
| 20° | 994.6 | 992.4 | 991.8 | 990.8 | 991.1 |
| 22.5° | 981.3 | 979.4 | 978.4 | 976.8 | 977.4 |
| 25° | 965.3 | 963.4 | 962.5 | 960.9 | 961.5 |
| 27.5° | 946.9 | 945.6 | 943.4 | 942.1 | 942.4 |
| 30° | 925.5 | 924.2 | 921.7 | 921.1 | 921.1 |
| 32.5° | 901.9 | 900.3 | 898.1 | 897.5 | 897.2 |
| 35° | 873.6 | 873.3 | 871.0 | 870.4 | 869.4 |
| 37.5° | 842.7 | 842.0 | 839.5 | 838.9 | 837.9 |
| 40° | 804.8 | 804.1 | 803.8 | 802.5 | 801.3 |
| 42.5° | 760.8 | 761.8 | 762.4 | 759.8 | 757.3 |
| 45° | 710.1 | 711.1 | 712.4 | 710.5 | 707.0 |
| 47.5° | 650.9 | 654.7 | 652.8 | 654.1 | 650.6 |
| 50° | 591.0 | 591.0 | 587.8 | 589.1 | 587.2 |
| 52.5° | 528.2 | 523.1 | 519.3 | 521.9 | 524.4 |
| 55° | 468.7 | 458.5 | 452.1 | 458.1 | 465.5 |
| 57.5° | 411.6 | 399.5 | 387.7 | 397.3 | 406.2 |
| 60° | 356.2 | 342.2 | 334.5 | 341.5 | 354.0 |
| 62.5° | 303.6 | 293.4 | 285.8 | 291.2 | 301.7 |
| 65° | 255.2 | 246.3 | 241.5 | 245.6 | 253.9 |
| 67.5° | 210.9 | 204.9 | 200.1 | 203.6 | 210.0 |
| 70° | 170.8 | 169.2 | 163.8 | 165.4 | 169.2 |
| 72.5° | 134.1 | 133.8 | 129.0 | 130.3 | 132.5 |
| 75° | 104.5 | 102.3 | 97.8 | 99.4 | 100.4 |
| 77.5° | 73.9 | 74.9 | 70.7 | 71.7 | 71.7 |
| 80° | 50.7 | 52.2 | 49.1 | 48.4 | 48.7 |
| 82.5° | 32.2 | 32.2 | 31.9 | 31.5 | 30.6 |
| 85° | 16.6 | 17.2 | 16.6 | 15.9 | 15.9 |
| 87.5° | 6.4 | 6.4 | 6.4 | 6.1 | 5.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)