

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: P298529

Luminaire Tested: **22FPX-32-L850-5LTD-SWPD1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P298529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22FPX-32-L850-5LTD-SWPD1  
Description: 2x2 FPX SERIES LED PANEL, 5000K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

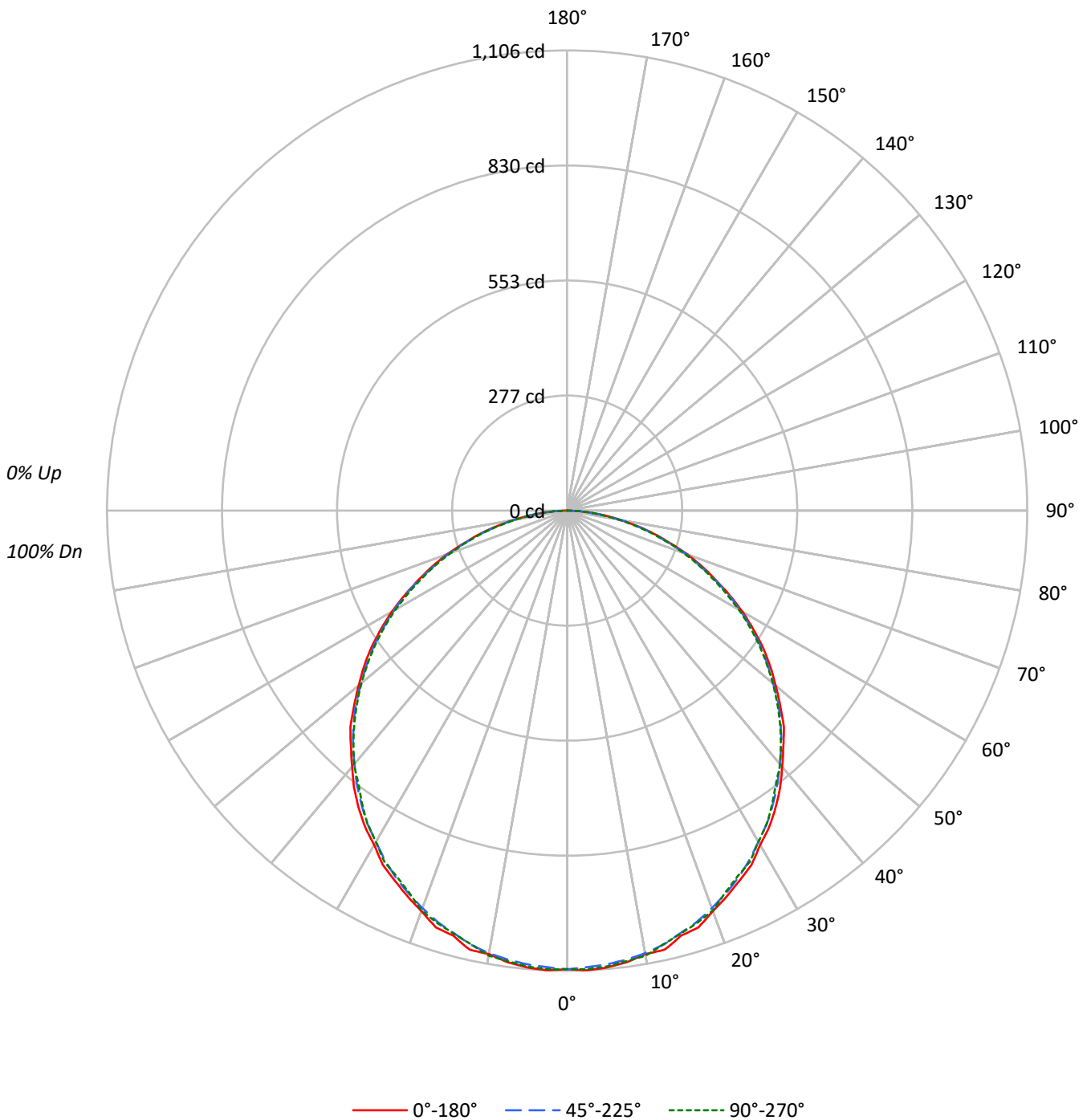
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3135.1 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.3789300062409  
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 | 104 | 99  | 95  | 106 | 101 | 98  | 94  | 97  | 94  | 91  | 93  | 91  | 88  | 90  | 88  | 86  | 83  |
| 2   | 99  | 90  | 83  | 78  | 96  | 88  | 82  | 77  | 85  | 79  | 75  | 82  | 77  | 73  | 78  | 75  | 71  | 69  |
| 3   | 90  | 79  | 71  | 64  | 87  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  | 64  | 58  | 53  | 62  | 56  | 52  | 50  |
| 5   | 76  | 63  | 54  | 47  | 73  | 61  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 55  | 50  | 45  | 43  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 37  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 33  |
| 8   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 45  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 31  | 29  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 28  | 27  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 24  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2966 | 2966 | 2966 |
| 5°  | 2978 | 2957 | 2971 |
| 10° | 2958 | 2951 | 2968 |
| 15° | 2947 | 2929 | 2933 |
| 20° | 2933 | 2912 | 2930 |
| 25° | 2912 | 2890 | 2879 |
| 30° | 2882 | 2856 | 2856 |
| 35° | 2868 | 2832 | 2824 |
| 40° | 2824 | 2793 | 2798 |
| 45° | 2804 | 2762 | 2753 |
| 50° | 2737 | 2707 | 2701 |
| 55° | 2696 | 2661 | 2644 |
| 60° | 2619 | 2586 | 2566 |
| 65° | 2507 | 2484 | 2453 |
| 70° | 2416 | 2378 | 2338 |
| 75° | 2253 | 2215 | 2189 |
| 80° | 2035 | 1996 | 1957 |
| 85° | 1720 | 1683 | 1646 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 104.2  | 3.3       |
| 10°-20°   | 297.9  | 9.5       |
| 20°-30°   | 449.6  | 14.3      |
| 30°-40°   | 540.6  | 17.2      |
| 40°-50°   | 560.1  | 17.9      |
| 50°-60°   | 506.7  | 16.2      |
| 60°-70°   | 386.7  | 12.3      |
| 70°-80°   | 225.5  | 7.2       |
| 80°-90°   | 63.7   | 2.0       |
| 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°    | 851.7  | 27.2      |
| 0°-40°    | 1392.3 | 44.4      |
| 0°-60°    | 2459.2 | 78.4      |
| 0°-90°    | 3135.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3135.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1102 | 1102  | 1102 | 1102  | 1102 |      |
| 5°  | 1102 | 1098  | 1095 | 1095  | 1100 | 105  |
| 15° | 1058 | 1056  | 1052 | 1054  | 1053 | 300  |
| 25° | 981  | 981   | 974  | 974   | 970  | 452  |
| 35° | 873  | 867   | 862  | 861   | 860  | 545  |
| 45° | 737  | 728   | 726  | 722   | 723  | 566  |
| 55° | 575  | 571   | 567  | 565   | 564  | 512  |
| 65° | 394  | 394   | 390  | 389   | 385  | 391  |
| 75° | 217  | 216   | 213  | 209   | 210  | 229  |
| 85° | 56   | 58    | 54   | 56    | 53   | 64   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1102.3 | 1102.3 | 1102.3 | 1102.3 | 1102.3 |
| 2.5°  | 1106.0 | 1099.8 | 1098.5 | 1101.0 | 1103.5 |
| 5°    | 1102.3 | 1098.5 | 1094.8 | 1094.8 | 1099.8 |
| 7.5°  | 1094.8 | 1091.1 | 1088.6 | 1088.6 | 1092.4 |
| 10°   | 1082.4 | 1078.7 | 1080.0 | 1080.0 | 1086.2 |
| 12.5° | 1081.2 | 1070.1 | 1068.8 | 1070.1 | 1067.6 |
| 15°   | 1057.7 | 1056.4 | 1051.5 | 1054.0 | 1052.7 |
| 17.5° | 1050.2 | 1042.8 | 1036.6 | 1037.9 | 1039.1 |
| 20°   | 1024.2 | 1021.8 | 1016.8 | 1018.0 | 1023.0 |
| 22.5° | 1003.2 | 1004.4 | 995.8  | 995.8  | 993.3  |
| 25°   | 980.9  | 980.9  | 973.5  | 973.5  | 969.7  |
| 27.5° | 959.8  | 953.6  | 947.5  | 948.7  | 951.2  |
| 30°   | 927.6  | 925.2  | 919.0  | 920.2  | 919.0  |
| 32.5° | 902.9  | 901.6  | 893.0  | 890.5  | 893.0  |
| 35°   | 873.1  | 866.9  | 862.0  | 860.8  | 859.5  |
| 37.5° | 840.9  | 836.0  | 829.8  | 828.6  | 824.8  |
| 40°   | 803.8  | 802.5  | 795.1  | 796.4  | 796.4  |
| 42.5° | 769.1  | 765.4  | 761.7  | 759.2  | 760.4  |
| 45°   | 736.9  | 728.2  | 725.8  | 722.0  | 723.3  |
| 47.5° | 694.8  | 691.1  | 688.6  | 683.7  | 684.9  |
| 50°   | 653.9  | 653.9  | 646.5  | 645.3  | 645.3  |
| 52.5° | 615.5  | 613.1  | 606.9  | 608.1  | 604.4  |
| 55°   | 574.7  | 570.9  | 567.2  | 564.8  | 563.5  |
| 57.5° | 530.1  | 526.4  | 523.9  | 520.2  | 520.2  |
| 60°   | 486.7  | 481.8  | 480.5  | 475.6  | 476.8  |
| 62.5° | 439.7  | 438.4  | 437.2  | 433.5  | 429.8  |
| 65°   | 393.8  | 393.8  | 390.1  | 388.9  | 385.2  |
| 67.5° | 350.5  | 348.0  | 344.3  | 344.3  | 341.8  |
| 70°   | 307.1  | 303.4  | 302.2  | 298.5  | 297.2  |
| 72.5° | 258.8  | 258.8  | 255.1  | 253.9  | 253.9  |
| 75°   | 216.7  | 215.5  | 213.0  | 209.3  | 210.5  |
| 77.5° | 173.4  | 172.2  | 170.9  | 168.4  | 167.2  |
| 80°   | 131.3  | 131.3  | 128.8  | 130.0  | 126.3  |
| 82.5° | 91.6   | 92.9   | 90.4   | 90.4   | 87.9   |
| 85°   | 55.7   | 58.2   | 54.5   | 55.7   | 53.3   |
| 87.5° | 23.5   | 23.5   | 22.3   | 22.3   | 22.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)