

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: P298622

Luminaire Tested: **14FPX-42-L840-SR-LWIPD1**

Issue Date: 3/3/2020



**Test Information**

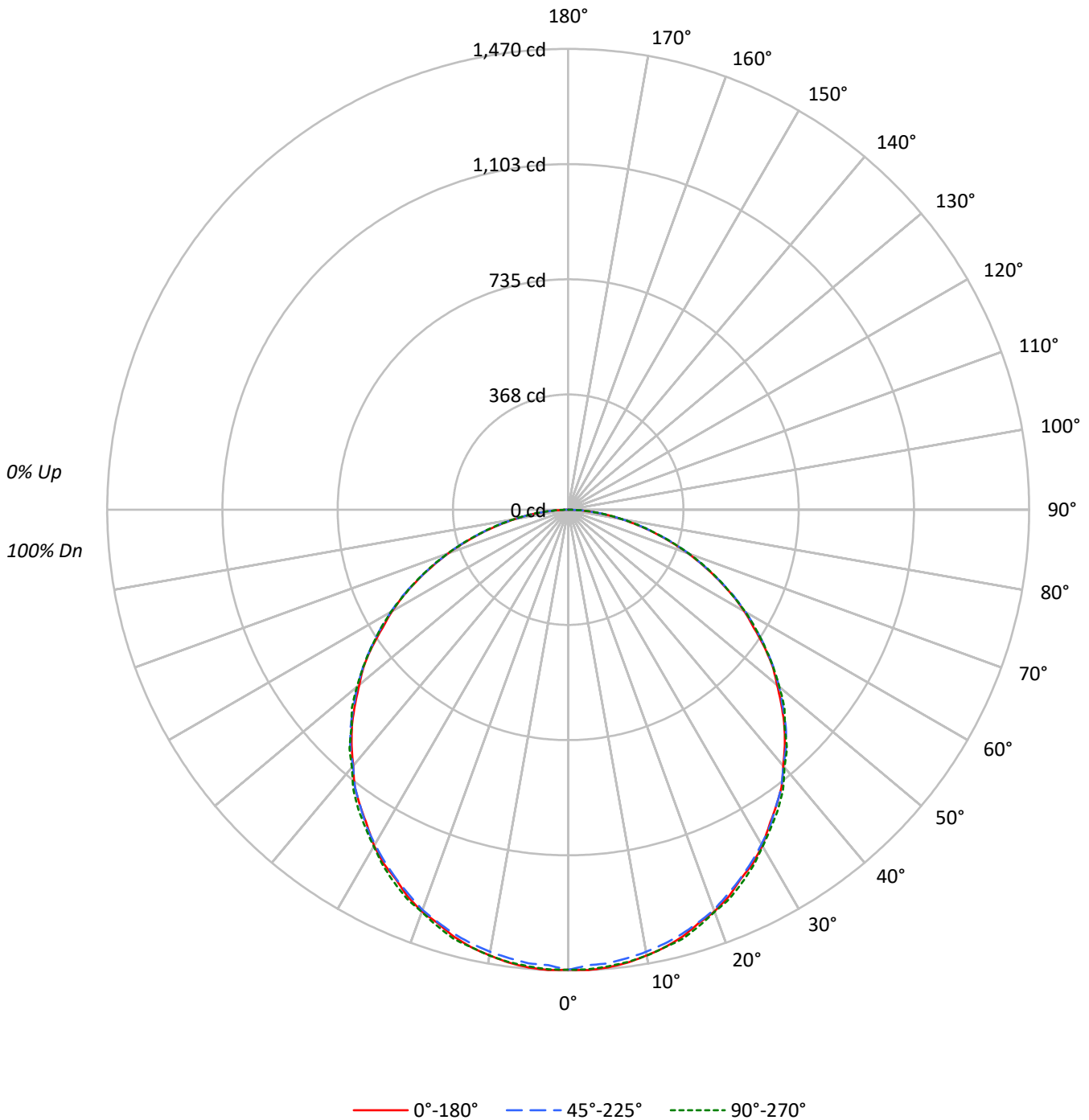
Test Method: LM-79-08  
Report Number: P298622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14FPX-42-L840-SR-LWIPD1  
Description: 1x4 FPX SERIES LED PANEL, 4000K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4219.8 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.6135810940725  
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 | 97  | 94  | 97  | 94  | 91  | 93  | 91  | 88  | 90  | 87  | 85  | 83  |
| 2   | 99  | 90  | 83  | 77  | 96  | 88  | 82  | 77  | 85  | 79  | 75  | 81  | 77  | 73  | 78  | 75  | 71  | 69  |
| 3   | 90  | 79  | 71  | 64  | 87  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 61  | 69  | 64  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  | 64  | 58  | 52  | 62  | 56  | 52  | 50  |
| 5   | 75  | 62  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  | 57  | 51  | 45  | 55  | 50  | 45  | 43  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 53  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 39  | 37  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |
| 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°  | 3949 | 3949 | 3949 |
| 5°  | 3959 | 3924 | 3950 |
| 10° | 3945 | 3913 | 3947 |
| 15° | 3926 | 3904 | 3946 |
| 20° | 3905 | 3890 | 3910 |
| 25° | 3861 | 3856 | 3898 |
| 30° | 3846 | 3830 | 3855 |
| 35° | 3795 | 3795 | 3833 |
| 40° | 3746 | 3750 | 3768 |
| 45° | 3710 | 3734 | 3714 |
| 50° | 3640 | 3674 | 3681 |
| 55° | 3584 | 3601 | 3597 |
| 60° | 3492 | 3516 | 3511 |
| 65° | 3365 | 3376 | 3387 |
| 70° | 3203 | 3210 | 3216 |
| 75° | 2962 | 2989 | 2999 |
| 80° | 2656 | 2698 | 2712 |
| 85° | 2171 | 2282 | 2334 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 138.7  | 3.3       |
| 10°-20°   | 397.0  | 9.4       |
| 20°-30°   | 601.6  | 14.3      |
| 30°-40°   | 725.7  | 17.2      |
| 40°-50°   | 756.0  | 17.9      |
| 50°-60°   | 685.8  | 16.3      |
| 60°-70°   | 524.9  | 12.4      |
| 70°-80°   | 304.8  | 7.2       |
| 80°-90°   | 85.3   | 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°    | 1137.3 | 27.0      |
| 0°-40°    | 1863.1 | 44.1      |
| 0°-60°    | 3304.8 | 78.3      |
| 0°-90°    | 4219.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4219.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1467 | 1467  | 1467 | 1467  | 1467 |      |
| 5°  | 1466 | 1460  | 1452 | 1460  | 1462 | 139  |
| 15° | 1409 | 1406  | 1402 | 1409  | 1416 | 397  |
| 25° | 1300 | 1304  | 1299 | 1309  | 1313 | 601  |
| 35° | 1155 | 1159  | 1155 | 1162  | 1167 | 723  |
| 45° | 975  | 982   | 981  | 986   | 976  | 751  |
| 55° | 764  | 768   | 768  | 769   | 767  | 682  |
| 65° | 528  | 530   | 530  | 531   | 532  | 523  |
| 75° | 285  | 286   | 288  | 290   | 288  | 302  |
| 85° | 70   | 71    | 74   | 76    | 76   | 84   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1467.4 | 1467.4 | 1467.4 | 1467.4 | 1467.4 |
| 2.5°  | 1470.0 | 1462.1 | 1454.2 | 1466.5 | 1467.4 |
| 5°    | 1465.6 | 1460.4 | 1452.5 | 1460.4 | 1462.1 |
| 7.5°  | 1456.9 | 1449.8 | 1442.8 | 1456.0 | 1455.1 |
| 10°   | 1443.7 | 1441.0 | 1432.2 | 1441.9 | 1444.5 |
| 12.5° | 1429.6 | 1425.2 | 1418.2 | 1425.2 | 1429.6 |
| 15°   | 1409.4 | 1405.9 | 1401.5 | 1409.4 | 1416.4 |
| 17.5° | 1383.0 | 1384.8 | 1380.4 | 1389.2 | 1391.8 |
| 20°   | 1363.7 | 1361.0 | 1358.4 | 1365.4 | 1365.4 |
| 22.5° | 1336.4 | 1339.0 | 1328.5 | 1340.8 | 1343.4 |
| 25°   | 1300.4 | 1303.9 | 1298.6 | 1309.1 | 1312.7 |
| 27.5° | 1273.1 | 1273.1 | 1266.9 | 1274.9 | 1279.3 |
| 30°   | 1237.9 | 1237.1 | 1232.7 | 1237.9 | 1240.6 |
| 32.5° | 1193.1 | 1202.8 | 1197.5 | 1205.4 | 1202.8 |
| 35°   | 1155.3 | 1158.8 | 1155.3 | 1162.3 | 1166.7 |
| 37.5° | 1117.5 | 1119.2 | 1116.6 | 1121.0 | 1125.4 |
| 40°   | 1066.5 | 1072.6 | 1067.4 | 1075.3 | 1072.6 |
| 42.5° | 1022.5 | 1028.7 | 1028.7 | 1030.4 | 1032.2 |
| 45°   | 975.0  | 982.1  | 981.2  | 985.6  | 975.9  |
| 47.5° | 922.3  | 932.0  | 927.6  | 936.4  | 935.5  |
| 50°   | 869.5  | 880.1  | 877.5  | 875.7  | 879.2  |
| 52.5° | 822.1  | 825.6  | 824.7  | 824.7  | 823.8  |
| 55°   | 764.0  | 768.4  | 767.6  | 769.3  | 766.7  |
| 57.5° | 702.5  | 711.3  | 710.4  | 710.4  | 710.4  |
| 60°   | 648.9  | 652.4  | 653.3  | 652.4  | 652.4  |
| 62.5° | 590.8  | 592.6  | 594.3  | 590.0  | 590.0  |
| 65°   | 528.4  | 530.2  | 530.2  | 531.0  | 531.9  |
| 67.5° | 466.0  | 471.3  | 468.6  | 468.6  | 471.3  |
| 70°   | 407.1  | 408.0  | 408.0  | 408.0  | 408.8  |
| 72.5° | 343.8  | 345.5  | 349.0  | 349.9  | 347.3  |
| 75°   | 284.9  | 285.7  | 287.5  | 290.1  | 288.4  |
| 77.5° | 226.0  | 227.7  | 230.4  | 231.2  | 232.1  |
| 80°   | 171.4  | 173.2  | 174.1  | 176.7  | 175.0  |
| 82.5° | 121.3  | 122.2  | 122.2  | 124.0  | 124.8  |
| 85°   | 70.3   | 71.2   | 73.9   | 75.6   | 75.6   |
| 87.5° | 29.9   | 30.8   | 29.9   | 29.9   | 30.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)