

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: P29737

Luminaire Tested: **14FP4240C**

Test Date: 06/15/17

**Test Information**

Test Method: LM-79-08  
Report Number: P29737  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 06/15/17  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14FP4240C  
Description: 1x4, 4200LM, UNV LED FLAT PANEL FIXTURE  
Light Source: -  
Ballast/Driver: -

**Summary**

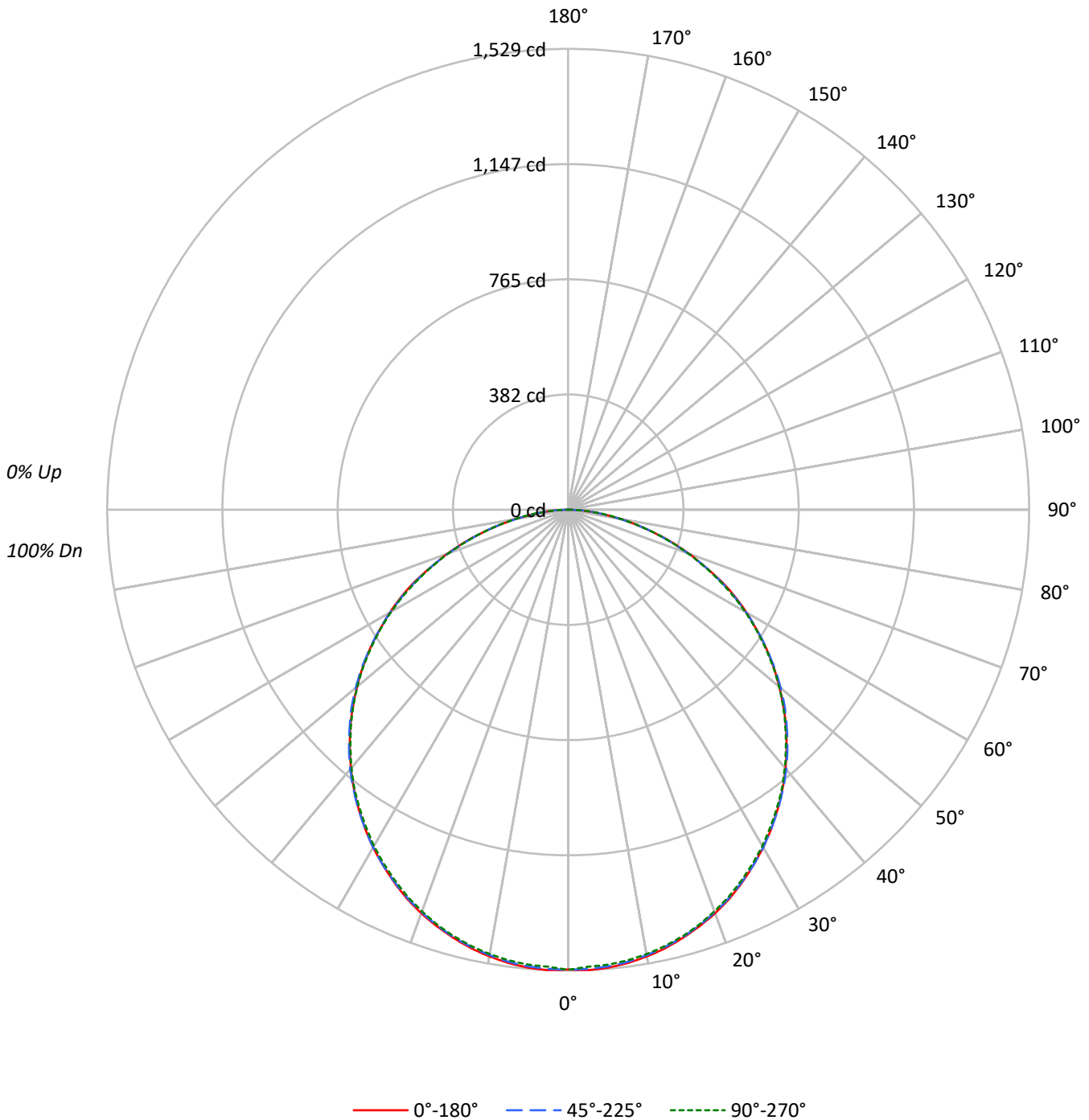
Lumens per Lamp: N/A  
Luminaire Lumens: 4388.7 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 39.2  
Input Voltage (V): 120.0  
Input Current (Ain): 0.329  
Voltage Rise (V): NR  
Power Factor: 0.9964  
Total Harmonic Distortion (THDi): 10.5%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 24 HR  
Ambient Temperature (°C): 25.3  
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  | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 109 | 104 | 99  | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  | 93  | 91  | 88  | 90  | 88  | 86  | 83  |    |    |    |    | 83  |   |  |   |
| 2   | 99  | 90  | 83  | 78  | 96  | 88  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 69  |    |    |    |    | 69  |   |  |   |
| 3   | 90  | 79  | 71  | 64  | 87  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 60  | 58  |    |    |    |    | 58  |   |  |   |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  | 64  | 58  | 53  | 62  | 56  | 52  | 50  |    |    |    |    | 50  |   |  |   |
| 5   | 76  | 63  | 53  | 47  | 73  | 61  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 45  | 55  | 50  | 45  | 43  |    |    |    |    | 43  |   |  |   |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 37  |    |    |    |    | 37  |   |  |   |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 33  |    |    |    |    | 33  |   |  |   |
| 8   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 31  | 29  |    |    |    |    | 29  |   |  |   |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |    |    |    |    | 26  |   |  |   |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 24  |    |    |    |    | 24  |   |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4106 | 4106 | 4106 |
| 5°  | 4119 | 4109 | 4092 |
| 10° | 4112 | 4101 | 4091 |
| 15° | 4098 | 4090 | 4081 |
| 20° | 4081 | 4072 | 4061 |
| 25° | 4053 | 4047 | 4032 |
| 30° | 4021 | 4021 | 4002 |
| 35° | 3982 | 3985 | 3965 |
| 40° | 3941 | 3952 | 3927 |
| 45° | 3889 | 3905 | 3878 |
| 50° | 3826 | 3852 | 3822 |
| 55° | 3763 | 3767 | 3744 |
| 60° | 3676 | 3670 | 3649 |
| 65° | 3559 | 3521 | 3502 |
| 70° | 3344 | 3320 | 3320 |
| 75° | 3078 | 3067 | 3067 |
| 80° | 2681 | 2696 | 2758 |
| 85° | 2223 | 2285 | 2377 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 144.6  | 3.3       |
| 10°-20°   | 414.4  | 9.4       |
| 20°-30°   | 627.5  | 14.3      |
| 30°-40°   | 756.9  | 17.2      |
| 40°-50°   | 787.7  | 17.9      |
| 50°-60°   | 714.7  | 16.3      |
| 60°-70°   | 545.9  | 12.4      |
| 70°-80°   | 311.5  | 7.1       |
| 80°-90°   | 85.4   | 1.9       |
| 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°    | 1186.5 | 27.0      |
| 0°-40°    | 1943.4 | 44.3      |
| 0°-60°    | 3445.8 | 78.5      |
| 0°-90°    | 4388.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4388.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1526 | 1526  | 1526 | 1526  | 1526 |      |
| 5°  | 1525 | 1524  | 1521 | 1522  | 1515 | 145  |
| 15° | 1471 | 1468  | 1468 | 1470  | 1465 | 415  |
| 25° | 1365 | 1360  | 1363 | 1361  | 1358 | 629  |
| 35° | 1212 | 1206  | 1213 | 1209  | 1207 | 758  |
| 45° | 1022 | 1020  | 1026 | 1020  | 1019 | 788  |
| 55° | 802  | 800   | 803  | 796   | 798  | 716  |
| 65° | 559  | 552   | 553  | 548   | 550  | 550  |
| 75° | 296  | 293   | 295  | 293   | 295  | 313  |
| 85° | 72   | 72    | 74   | 74    | 77   | 84   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°   | 22.5° | 45°  | 67.5° | 90°  |
|-------|------|-------|------|-------|------|
| 0°    | 1526 | 1526  | 1526 | 1526  | 1526 |
| 2.5°  | 1529 | 1528  | 1525 | 1527  | 1518 |
| 5°    | 1525 | 1524  | 1521 | 1522  | 1515 |
| 7.5°  | 1517 | 1515  | 1513 | 1513  | 1508 |
| 10°   | 1505 | 1503  | 1501 | 1502  | 1497 |
| 12.5° | 1490 | 1486  | 1486 | 1488  | 1483 |
| 15°   | 1471 | 1468  | 1468 | 1470  | 1465 |
| 17.5° | 1449 | 1445  | 1446 | 1449  | 1444 |
| 20°   | 1425 | 1420  | 1422 | 1423  | 1418 |
| 22.5° | 1397 | 1392  | 1394 | 1393  | 1390 |
| 25°   | 1365 | 1360  | 1363 | 1361  | 1358 |
| 27.5° | 1330 | 1325  | 1330 | 1328  | 1324 |
| 30°   | 1294 | 1289  | 1294 | 1291  | 1288 |
| 32.5° | 1254 | 1249  | 1254 | 1252  | 1248 |
| 35°   | 1212 | 1206  | 1213 | 1209  | 1207 |
| 37.5° | 1168 | 1163  | 1170 | 1165  | 1165 |
| 40°   | 1122 | 1117  | 1125 | 1119  | 1118 |
| 42.5° | 1072 | 1070  | 1076 | 1070  | 1069 |
| 45°   | 1022 | 1020  | 1026 | 1020  | 1019 |
| 47.5° | 969  | 966   | 975  | 967   | 967  |
| 50°   | 914  | 913   | 920  | 913   | 913  |
| 52.5° | 859  | 857   | 863  | 857   | 857  |
| 55°   | 802  | 800   | 803  | 796   | 798  |
| 57.5° | 741  | 739   | 743  | 738   | 738  |
| 60°   | 683  | 678   | 682  | 676   | 678  |
| 62.5° | 623  | 619   | 618  | 612   | 615  |
| 65°   | 559  | 552   | 553  | 548   | 550  |
| 67.5° | 488  | 488   | 488  | 485   | 486  |
| 70°   | 425  | 422   | 422  | 421   | 422  |
| 72.5° | 361  | 357   | 358  | 356   | 357  |
| 75°   | 296  | 293   | 295  | 293   | 295  |
| 77.5° | 233  | 230   | 232  | 232   | 234  |
| 80°   | 173  | 172   | 174  | 174   | 178  |
| 82.5° | 119  | 119   | 122  | 121   | 125  |
| 85°   | 72   | 72    | 74   | 74    | 77   |
| 87.5° | 32   | 32    | 33   | 32    | 34   |
| 90°   | 0    | 0     | 0    | 0     | 0    |

(END OF REPORT)