

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: P298666

Luminaire Tested: **14FPX-42-L835-L5-SWPD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P298666
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-L835-L5-SWPD1
Description: 1x4 FPX SERIES LED PANEL, 3500K CCT AND 80CRI
Light Source: -
Ballast/Driver: -

Summary

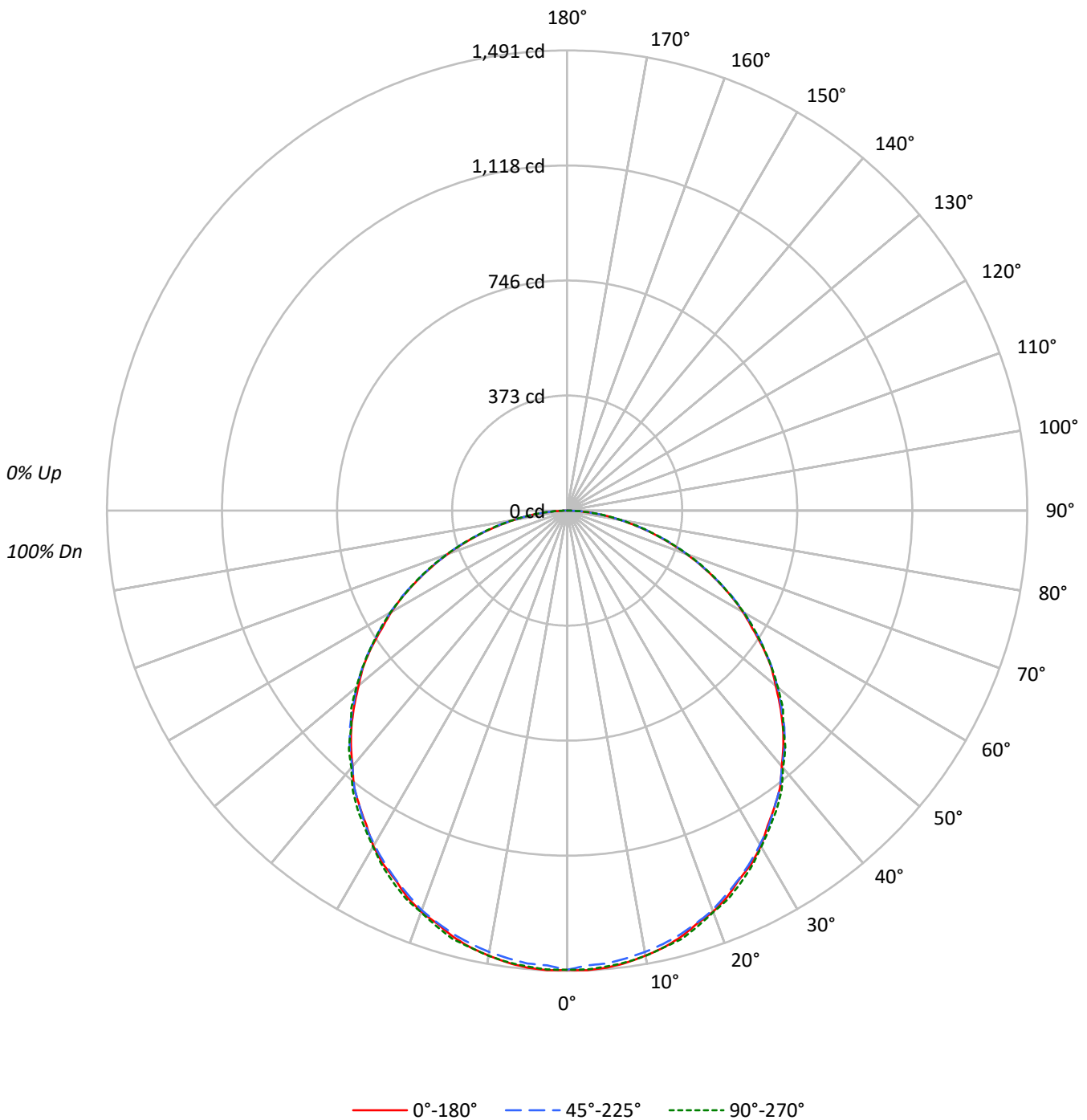
Lumens per Lamp: N/A
Luminaire Lumens: 4279.4 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.6819038471995
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° | 4004 | 4004 | 4004 |
| 5° | 4015 | 3979 | 4005 |
| 10° | 4001 | 3969 | 4003 |
| 15° | 3982 | 3960 | 4002 |
| 20° | 3960 | 3945 | 3965 |
| 25° | 3915 | 3910 | 3953 |
| 30° | 3901 | 3884 | 3909 |
| 35° | 3849 | 3849 | 3887 |
| 40° | 3799 | 3802 | 3821 |
| 45° | 3763 | 3787 | 3766 |
| 50° | 3692 | 3725 | 3733 |
| 55° | 3635 | 3652 | 3648 |
| 60° | 3541 | 3566 | 3561 |
| 65° | 3412 | 3424 | 3435 |
| 70° | 3248 | 3255 | 3262 |
| 75° | 3004 | 3032 | 3041 |
| 80° | 2695 | 2735 | 2749 |
| 85° | 2201 | 2313 | 2368 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 140.6 | 3.3 |
| 10°-20° | 402.6 | 9.4 |
| 20°-30° | 610.1 | 14.3 |
| 30°-40° | 736.0 | 17.2 |
| 40°-50° | 766.6 | 17.9 |
| 50°-60° | 695.5 | 16.3 |
| 60°-70° | 532.3 | 12.4 |
| 70°-80° | 309.1 | 7.2 |
| 80°-90° | 86.5 | 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° | 1153.4 | 27.0 |
| 0°-40° | 1889.4 | 44.2 |
| 0°-60° | 3351.5 | 78.3 |
| 0°-90° | 4279.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4279.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1488 | 1488 | 1488 | 1488 | 1488 | |
| 5° | 1486 | 1481 | 1473 | 1481 | 1483 | 141 |
| 15° | 1429 | 1426 | 1421 | 1429 | 1436 | 403 |
| 25° | 1319 | 1322 | 1317 | 1328 | 1331 | 610 |
| 35° | 1172 | 1175 | 1172 | 1179 | 1183 | 733 |
| 45° | 989 | 996 | 995 | 1000 | 990 | 761 |
| 55° | 775 | 779 | 778 | 780 | 778 | 691 |
| 65° | 536 | 538 | 538 | 538 | 539 | 530 |
| 75° | 289 | 290 | 292 | 294 | 292 | 306 |
| 85° | 71 | 72 | 75 | 77 | 77 | 85 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P298666

CATALOG NUMBER: 14FPX-42-L835-L5-SWPD1

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1488.1 | 1488.1 | 1488.1 | 1488.1 | 1488.1 |
| 2.5° | 1490.8 | 1482.8 | 1474.8 | 1487.2 | 1488.1 |
| 5° | 1486.4 | 1481.0 | 1473.0 | 1481.0 | 1482.8 |
| 7.5° | 1477.4 | 1470.3 | 1463.2 | 1476.5 | 1475.7 |
| 10° | 1464.1 | 1461.4 | 1452.5 | 1462.3 | 1465.0 |
| 12.5° | 1449.8 | 1445.3 | 1438.2 | 1445.3 | 1449.8 |
| 15° | 1429.3 | 1425.7 | 1421.3 | 1429.3 | 1436.4 |
| 17.5° | 1402.5 | 1404.3 | 1399.9 | 1408.8 | 1411.5 |
| 20° | 1382.9 | 1380.2 | 1377.6 | 1384.7 | 1384.7 |
| 22.5° | 1355.3 | 1358.0 | 1347.3 | 1359.7 | 1362.4 |
| 25° | 1318.7 | 1322.3 | 1316.9 | 1327.6 | 1331.2 |
| 27.5° | 1291.1 | 1291.1 | 1284.8 | 1292.9 | 1297.3 |
| 30° | 1255.4 | 1254.5 | 1250.1 | 1255.4 | 1258.1 |
| 32.5° | 1209.9 | 1219.8 | 1214.4 | 1222.4 | 1219.8 |
| 35° | 1171.6 | 1175.2 | 1171.6 | 1178.7 | 1183.2 |
| 37.5° | 1133.3 | 1135.0 | 1132.4 | 1136.8 | 1141.3 |
| 40° | 1081.6 | 1087.8 | 1082.4 | 1090.5 | 1087.8 |
| 42.5° | 1037.0 | 1043.2 | 1043.2 | 1045.0 | 1046.8 |
| 45° | 988.8 | 996.0 | 995.1 | 999.5 | 989.7 |
| 47.5° | 935.3 | 945.1 | 940.7 | 949.6 | 948.7 |
| 50° | 881.8 | 892.5 | 889.8 | 888.1 | 891.6 |
| 52.5° | 833.7 | 837.2 | 836.4 | 836.4 | 835.5 |
| 55° | 774.8 | 779.3 | 778.4 | 780.2 | 777.5 |
| 57.5° | 712.4 | 721.3 | 720.4 | 720.4 | 720.4 |
| 60° | 658.0 | 661.6 | 662.5 | 661.6 | 661.6 |
| 62.5° | 599.2 | 601.0 | 602.7 | 598.3 | 598.3 |
| 65° | 535.9 | 537.7 | 537.7 | 538.5 | 539.4 |
| 67.5° | 472.6 | 477.9 | 475.2 | 475.2 | 477.9 |
| 70° | 412.8 | 413.7 | 413.7 | 413.7 | 414.6 |
| 72.5° | 348.6 | 350.4 | 354.0 | 354.9 | 352.2 |
| 75° | 288.9 | 289.8 | 291.6 | 294.2 | 292.5 |
| 77.5° | 229.1 | 230.9 | 233.6 | 234.5 | 235.4 |
| 80° | 173.9 | 175.7 | 176.5 | 179.2 | 177.4 |
| 82.5° | 123.0 | 123.9 | 123.9 | 125.7 | 126.6 |
| 85° | 71.3 | 72.2 | 74.9 | 76.7 | 76.7 |
| 87.5° | 30.3 | 31.2 | 30.3 | 30.3 | 31.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)