

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: P298518

Luminaire Tested: **22FPX-42-L835-SR-LWIPD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P298518
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-42-L835-SR-LWIPD1
Description: 2x2 FPX SERIES LED PANEL, 3500K CCT AND 80CRI
Light Source: -
Ballast/Driver: -

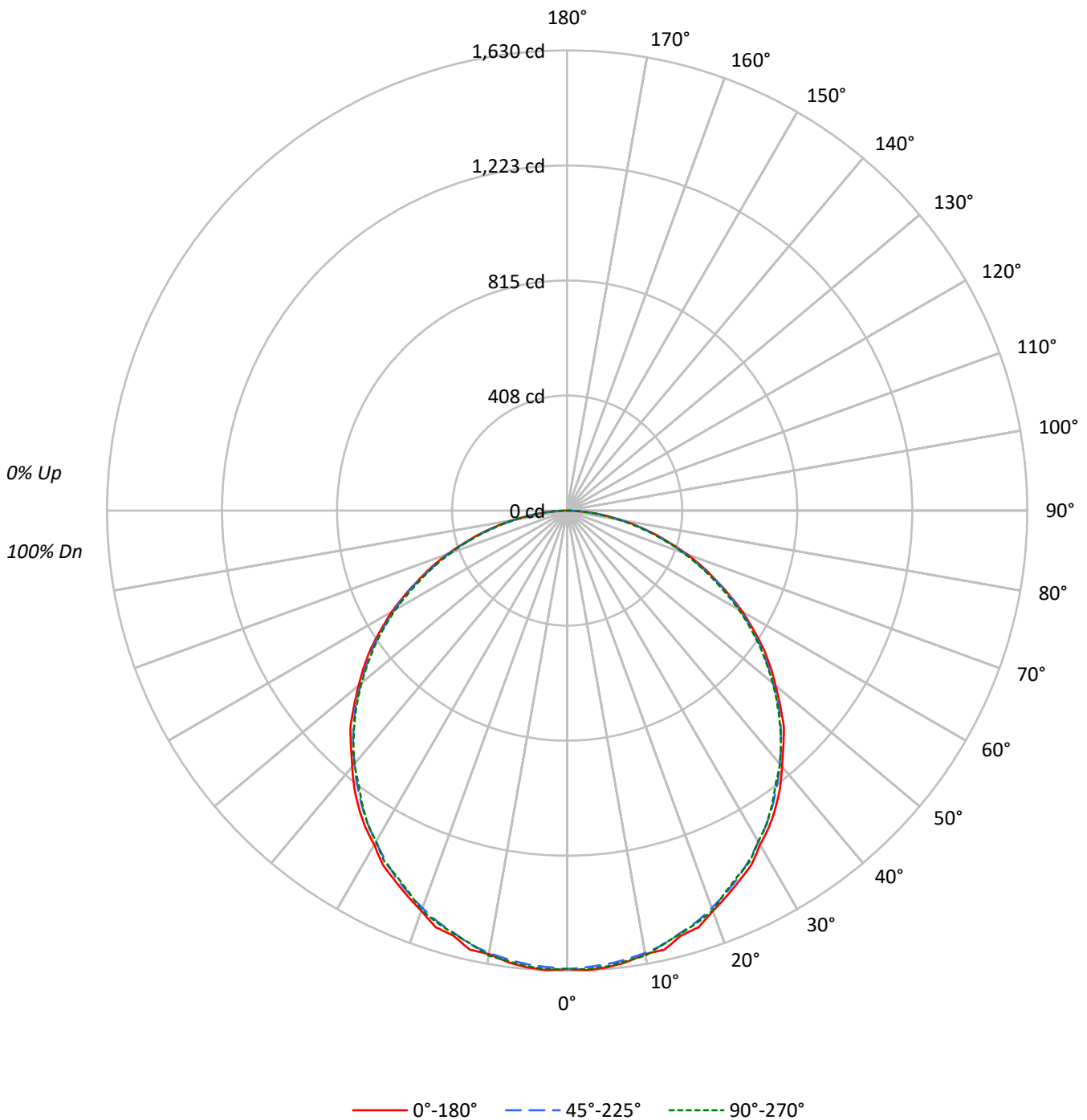
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4619.0 lumens
Efficiency: N/A
Efficacy: 111.3 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): 41.5079628679454
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





TEST NUMBER: P298518

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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° | 4370 | 4370 | 4370 |
| 5° | 4387 | 4357 | 4377 |
| 10° | 4358 | 4348 | 4373 |
| 15° | 4341 | 4316 | 4321 |
| 20° | 4321 | 4290 | 4316 |
| 25° | 4291 | 4258 | 4242 |
| 30° | 4247 | 4207 | 4207 |
| 35° | 4226 | 4172 | 4160 |
| 40° | 4160 | 4115 | 4122 |
| 45° | 4132 | 4069 | 4055 |
| 50° | 4034 | 3988 | 3980 |
| 55° | 3972 | 3921 | 3895 |
| 60° | 3859 | 3810 | 3781 |
| 65° | 3695 | 3660 | 3613 |
| 70° | 3560 | 3503 | 3445 |
| 75° | 3320 | 3264 | 3225 |
| 80° | 2997 | 2941 | 2884 |
| 85° | 2535 | 2479 | 2424 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 153.5 | 3.3 |
| 10°-20° | 438.9 | 9.5 |
| 20°-30° | 662.4 | 14.3 |
| 30°-40° | 796.4 | 17.2 |
| 40°-50° | 825.3 | 17.9 |
| 50°-60° | 746.6 | 16.2 |
| 60°-70° | 569.8 | 12.3 |
| 70°-80° | 332.2 | 7.2 |
| 80°-90° | 93.9 | 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° | 1254.8 | 27.2 |
| 0°-40° | 2051.3 | 44.4 |
| 0°-60° | 3623.1 | 78.4 |
| 0°-90° | 4619.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4619.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1624 | 1624 | 1624 | 1624 | 1624 | |
| 5° | 1624 | 1618 | 1613 | 1613 | 1620 | 154 |
| 15° | 1558 | 1556 | 1549 | 1553 | 1551 | 442 |
| 25° | 1445 | 1445 | 1434 | 1434 | 1429 | 666 |
| 35° | 1286 | 1277 | 1270 | 1268 | 1266 | 804 |
| 45° | 1086 | 1073 | 1069 | 1064 | 1066 | 833 |
| 55° | 847 | 841 | 836 | 832 | 830 | 755 |
| 65° | 580 | 580 | 575 | 573 | 568 | 576 |
| 75° | 319 | 318 | 314 | 308 | 310 | 337 |
| 85° | 82 | 86 | 80 | 82 | 78 | 95 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P298518

CATALOG NUMBER: 22FPX-42-L835-SR-LWIPD1

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1624.0 | 1624.0 | 1624.0 | 1624.0 | 1624.0 |
| 2.5° | 1629.5 | 1620.4 | 1618.5 | 1622.2 | 1625.8 |
| 5° | 1624.0 | 1618.5 | 1613.1 | 1613.1 | 1620.4 |
| 7.5° | 1613.1 | 1607.6 | 1603.9 | 1603.9 | 1609.4 |
| 10° | 1594.8 | 1589.3 | 1591.2 | 1591.2 | 1600.3 |
| 12.5° | 1593.0 | 1576.6 | 1574.7 | 1576.6 | 1572.9 |
| 15° | 1558.3 | 1556.5 | 1549.2 | 1552.8 | 1551.0 |
| 17.5° | 1547.4 | 1536.4 | 1527.3 | 1529.1 | 1530.9 |
| 20° | 1509.0 | 1505.4 | 1498.1 | 1499.9 | 1507.2 |
| 22.5° | 1478.0 | 1479.8 | 1467.1 | 1467.1 | 1463.4 |
| 25° | 1445.2 | 1445.2 | 1434.2 | 1434.2 | 1428.8 |
| 27.5° | 1414.2 | 1405.0 | 1395.9 | 1397.7 | 1401.4 |
| 30° | 1366.7 | 1363.1 | 1353.9 | 1355.8 | 1353.9 |
| 32.5° | 1330.2 | 1328.4 | 1315.6 | 1312.0 | 1315.6 |
| 35° | 1286.4 | 1277.3 | 1270.0 | 1268.2 | 1266.4 |
| 37.5° | 1239.0 | 1231.7 | 1222.6 | 1220.7 | 1215.3 |
| 40° | 1184.2 | 1182.4 | 1171.5 | 1173.3 | 1173.3 |
| 42.5° | 1133.2 | 1127.7 | 1122.2 | 1118.6 | 1120.4 |
| 45° | 1085.7 | 1072.9 | 1069.3 | 1063.8 | 1065.6 |
| 47.5° | 1023.7 | 1018.2 | 1014.5 | 1007.2 | 1009.1 |
| 50° | 963.5 | 963.5 | 952.5 | 950.7 | 950.7 |
| 52.5° | 906.9 | 903.2 | 894.1 | 895.9 | 890.5 |
| 55° | 846.7 | 841.2 | 835.7 | 832.1 | 830.2 |
| 57.5° | 781.0 | 775.5 | 771.9 | 766.4 | 766.4 |
| 60° | 717.1 | 709.8 | 708.0 | 700.7 | 702.5 |
| 62.5° | 647.8 | 646.0 | 644.1 | 638.7 | 633.2 |
| 65° | 580.3 | 580.3 | 574.8 | 573.0 | 567.5 |
| 67.5° | 516.4 | 512.7 | 507.3 | 507.3 | 503.6 |
| 70° | 452.5 | 447.1 | 445.2 | 439.8 | 437.9 |
| 72.5° | 381.4 | 381.4 | 375.9 | 374.1 | 374.1 |
| 75° | 319.3 | 317.5 | 313.9 | 308.4 | 310.2 |
| 77.5° | 255.5 | 253.6 | 251.8 | 248.2 | 246.3 |
| 80° | 193.4 | 193.4 | 189.8 | 191.6 | 186.1 |
| 82.5° | 135.0 | 136.9 | 133.2 | 133.2 | 129.6 |
| 85° | 82.1 | 85.8 | 80.3 | 82.1 | 78.5 |
| 87.5° | 34.7 | 34.7 | 32.8 | 32.8 | 32.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)