

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: P298663

Luminaire Tested: **14FPX-30-L835-HE-L5-SWPD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P298663
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-30-L835-HE-L5-SWPD1
Description: 1x4 FPX SERIES LED PANEL, 3500K CCT AND 80CRI
Light Source: -
Ballast/Driver: -

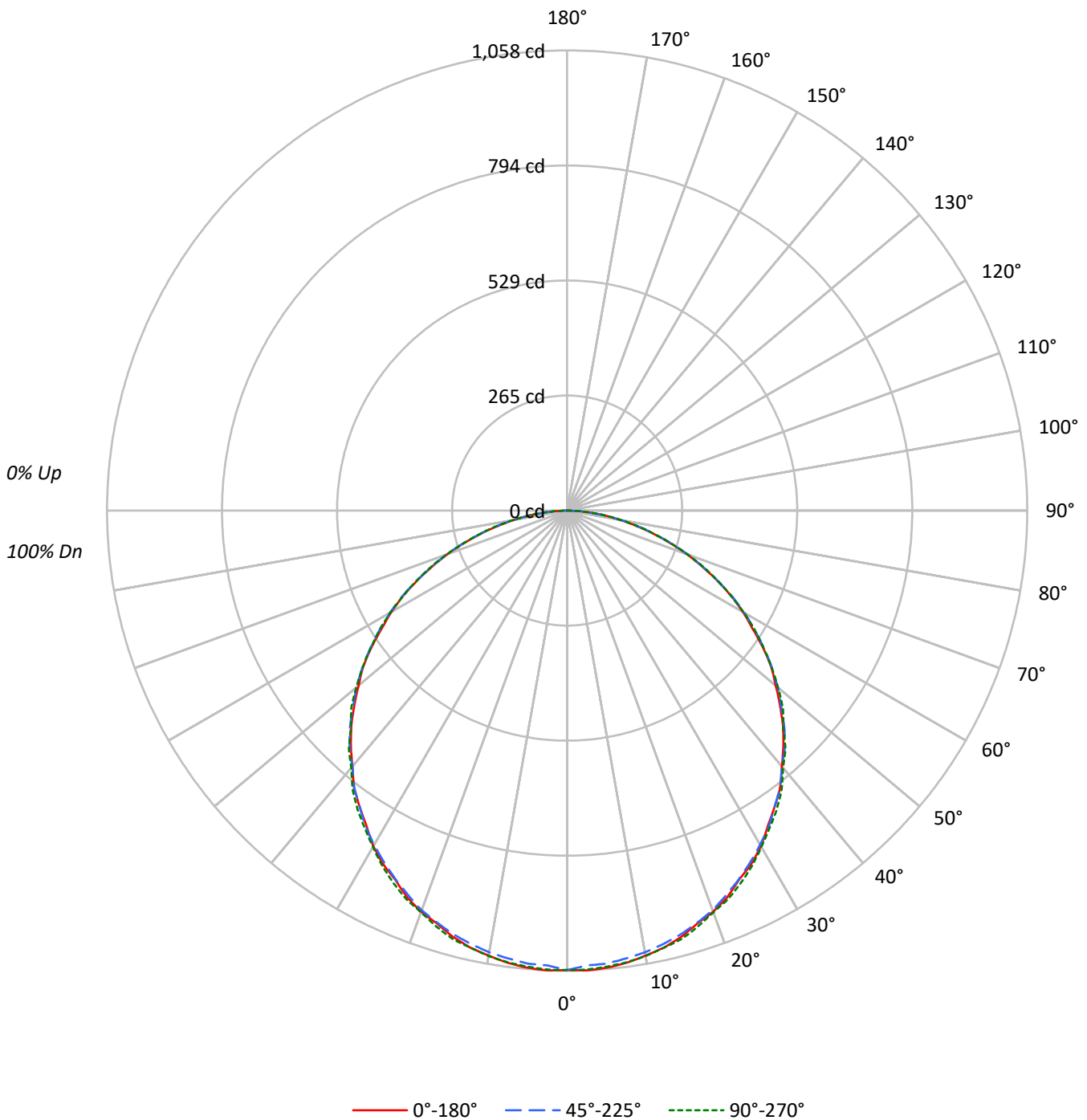
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3037.6 lumens
Efficiency: N/A
Efficacy: 119.9 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): 25.3389101497429
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° | 2842 | 2842 | 2842 |
| 5° | 2850 | 2824 | 2843 |
| 10° | 2840 | 2817 | 2842 |
| 15° | 2826 | 2810 | 2841 |
| 20° | 2811 | 2800 | 2815 |
| 25° | 2779 | 2776 | 2806 |
| 30° | 2769 | 2757 | 2775 |
| 35° | 2732 | 2732 | 2759 |
| 40° | 2697 | 2699 | 2712 |
| 45° | 2671 | 2688 | 2673 |
| 50° | 2620 | 2644 | 2650 |
| 55° | 2580 | 2592 | 2589 |
| 60° | 2514 | 2531 | 2527 |
| 65° | 2422 | 2430 | 2438 |
| 70° | 2305 | 2311 | 2316 |
| 75° | 2132 | 2152 | 2158 |
| 80° | 1912 | 1942 | 1951 |
| 85° | 1562 | 1643 | 1680 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.8 | 3.3 |
| 10°-20° | 285.8 | 9.4 |
| 20°-30° | 433.1 | 14.3 |
| 30°-40° | 522.4 | 17.2 |
| 40°-50° | 544.2 | 17.9 |
| 50°-60° | 493.7 | 16.3 |
| 60°-70° | 377.9 | 12.4 |
| 70°-80° | 219.4 | 7.2 |
| 80°-90° | 61.4 | 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° | 818.7 | 27.0 |
| 0°-40° | 1341.1 | 44.1 |
| 0°-60° | 2378.9 | 78.3 |
| 0°-90° | 3037.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3037.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1056 | 1056 | 1056 | 1056 | 1056 | |
| 5° | 1055 | 1051 | 1046 | 1051 | 1052 | 100 |
| 15° | 1014 | 1012 | 1009 | 1014 | 1020 | 286 |
| 25° | 936 | 939 | 935 | 942 | 945 | 433 |
| 35° | 832 | 834 | 832 | 837 | 840 | 521 |
| 45° | 702 | 707 | 706 | 710 | 702 | 540 |
| 55° | 550 | 553 | 552 | 554 | 552 | 491 |
| 65° | 380 | 382 | 382 | 382 | 383 | 376 |
| 75° | 205 | 206 | 207 | 209 | 208 | 217 |
| 85° | 51 | 51 | 53 | 54 | 54 | 60 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1056.3 | 1056.3 | 1056.3 | 1056.3 | 1056.3 |
| 2.5° | 1058.2 | 1052.5 | 1046.8 | 1055.7 | 1056.3 |
| 5° | 1055.0 | 1051.2 | 1045.5 | 1051.2 | 1052.5 |
| 7.5° | 1048.7 | 1043.6 | 1038.6 | 1048.1 | 1047.4 |
| 10° | 1039.2 | 1037.3 | 1031.0 | 1038.0 | 1039.9 |
| 12.5° | 1029.1 | 1025.9 | 1020.9 | 1025.9 | 1029.1 |
| 15° | 1014.5 | 1012.0 | 1008.8 | 1014.5 | 1019.6 |
| 17.5° | 995.5 | 996.8 | 993.6 | 1000.0 | 1001.9 |
| 20° | 981.6 | 979.7 | 977.8 | 982.9 | 982.9 |
| 22.5° | 962.0 | 963.9 | 956.3 | 965.2 | 967.1 |
| 25° | 936.1 | 938.6 | 934.8 | 942.4 | 944.9 |
| 27.5° | 916.4 | 916.4 | 912.0 | 917.7 | 920.9 |
| 30° | 891.1 | 890.5 | 887.3 | 891.1 | 893.0 |
| 32.5° | 858.8 | 865.8 | 862.0 | 867.7 | 865.8 |
| 35° | 831.6 | 834.2 | 831.6 | 836.7 | 839.9 |
| 37.5° | 804.4 | 805.7 | 803.8 | 806.9 | 810.1 |
| 40° | 767.7 | 772.1 | 768.3 | 774.0 | 772.1 |
| 42.5° | 736.1 | 740.5 | 740.5 | 741.8 | 743.0 |
| 45° | 701.9 | 706.9 | 706.3 | 709.5 | 702.5 |
| 47.5° | 663.9 | 670.9 | 667.7 | 674.0 | 673.4 |
| 50° | 625.9 | 633.5 | 631.6 | 630.4 | 632.9 |
| 52.5° | 591.8 | 594.3 | 593.7 | 593.7 | 593.0 |
| 55° | 550.0 | 553.2 | 552.5 | 553.8 | 551.9 |
| 57.5° | 505.7 | 512.0 | 511.4 | 511.4 | 511.4 |
| 60° | 467.1 | 469.6 | 470.2 | 469.6 | 469.6 |
| 62.5° | 425.3 | 426.6 | 427.8 | 424.7 | 424.7 |
| 65° | 380.4 | 381.6 | 381.6 | 382.3 | 382.9 |
| 67.5° | 335.4 | 339.2 | 337.3 | 337.3 | 339.2 |
| 70° | 293.0 | 293.7 | 293.7 | 293.7 | 294.3 |
| 72.5° | 247.5 | 248.7 | 251.3 | 251.9 | 250.0 |
| 75° | 205.1 | 205.7 | 207.0 | 208.9 | 207.6 |
| 77.5° | 162.7 | 163.9 | 165.8 | 166.5 | 167.1 |
| 80° | 123.4 | 124.7 | 125.3 | 127.2 | 125.9 |
| 82.5° | 87.3 | 88.0 | 88.0 | 89.2 | 89.9 |
| 85° | 50.6 | 51.3 | 53.2 | 54.4 | 54.4 |
| 87.5° | 21.5 | 22.2 | 21.5 | 21.5 | 22.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)