

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: P298553

Luminaire Tested: **22FPX-32-L850-LV1-SWPD1**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P298553
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-32-L850-LV1-SWPD1
Description: 2x2 FPX SERIES LED PANEL, 5000K CCT AND 80CRI
Light Source: -
Ballast/Driver: -

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
	AS-5443-2	Good	REFLECTOR
	AS-5443-3	Good	DRIVER
	AS-5443-4	Good	UPPER MODULE
	AS-5443-5	Good	LENS
	AS-5443-6	Good	DRIVER 2
	AS-5443-7	Good	TRIM RING

Summary

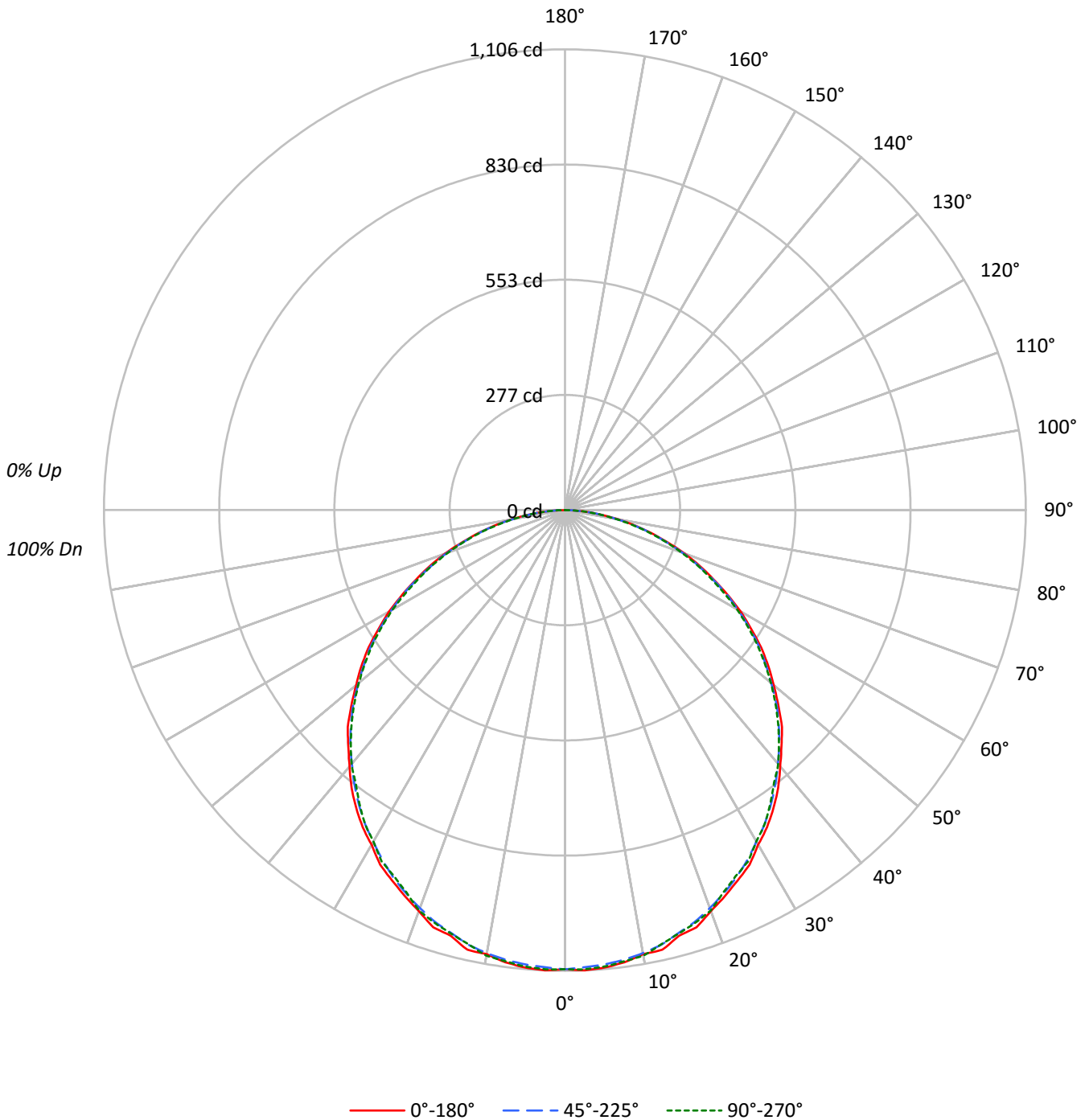
Lumens per Lamp: N/A
Luminaire Lumens: 3135.1 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30.99
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	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°	2966	2966	2966
5°	2978	2957	2971
10°	2958	2951	2968
15°	2947	2929	2933
20°	2933	2912	2930
25°	2912	2890	2879
30°	2882	2856	2856
35°	2868	2832	2824
40°	2824	2793	2798
45°	2804	2762	2753
50°	2737	2707	2701
55°	2696	2661	2644
60°	2619	2586	2566
65°	2507	2484	2453
70°	2416	2378	2338
75°	2253	2215	2189
80°	2035	1996	1957
85°	1720	1683	1646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	3.3
10°-20°	297.9	9.5
20°-30°	449.6	14.3
30°-40°	540.6	17.2
40°-50°	560.1	17.9
50°-60°	506.7	16.2
60°-70°	386.7	12.3
70°-80°	225.5	7.2
80°-90°	63.7	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°	851.7	27.2
0°-40°	1392.3	44.4
0°-60°	2459.2	78.4
0°-90°	3135.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3135.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1102	1098	1095	1095	1100	105
15°	1058	1056	1052	1054	1053	300
25°	981	981	974	974	970	452
35°	873	867	862	861	860	545
45°	737	728	726	722	723	566
55°	575	571	567	565	564	512
65°	394	394	390	389	385	391
75°	217	216	213	209	210	229
85°	56	58	54	56	53	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.3	1102.3	1102.3	1102.3	1102.3
2.5°	1106.0	1099.8	1098.5	1101.0	1103.5
5°	1102.3	1098.5	1094.8	1094.8	1099.8
7.5°	1094.8	1091.1	1088.6	1088.6	1092.4
10°	1082.4	1078.7	1080.0	1080.0	1086.2
12.5°	1081.2	1070.1	1068.8	1070.1	1067.6
15°	1057.7	1056.4	1051.5	1054.0	1052.7
17.5°	1050.2	1042.8	1036.6	1037.9	1039.1
20°	1024.2	1021.8	1016.8	1018.0	1023.0
22.5°	1003.2	1004.4	995.8	995.8	993.3
25°	980.9	980.9	973.5	973.5	969.7
27.5°	959.8	953.6	947.5	948.7	951.2
30°	927.6	925.2	919.0	920.2	919.0
32.5°	902.9	901.6	893.0	890.5	893.0
35°	873.1	866.9	862.0	860.8	859.5
37.5°	840.9	836.0	829.8	828.6	824.8
40°	803.8	802.5	795.1	796.4	796.4
42.5°	769.1	765.4	761.7	759.2	760.4
45°	736.9	728.2	725.8	722.0	723.3
47.5°	694.8	691.1	688.6	683.7	684.9
50°	653.9	653.9	646.5	645.3	645.3
52.5°	615.5	613.1	606.9	608.1	604.4
55°	574.7	570.9	567.2	564.8	563.5
57.5°	530.1	526.4	523.9	520.2	520.2
60°	486.7	481.8	480.5	475.6	476.8
62.5°	439.7	438.4	437.2	433.5	429.8
65°	393.8	393.8	390.1	388.9	385.2
67.5°	350.5	348.0	344.3	344.3	341.8
70°	307.1	303.4	302.2	298.5	297.2
72.5°	258.8	258.8	255.1	253.9	253.9
75°	216.7	215.5	213.0	209.3	210.5
77.5°	173.4	172.2	170.9	168.4	167.2
80°	131.3	131.3	128.8	130.0	126.3
82.5°	91.6	92.9	90.4	90.4	87.9
85°	55.7	58.2	54.5	55.7	53.3
87.5°	23.5	23.5	22.3	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)