

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: P298552

Luminaire Tested: **22FPX-32-L840-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: P298552  
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-L840-LV1-SWPD1  
Description: 2x2 FPX SERIES LED PANEL, 4000K 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

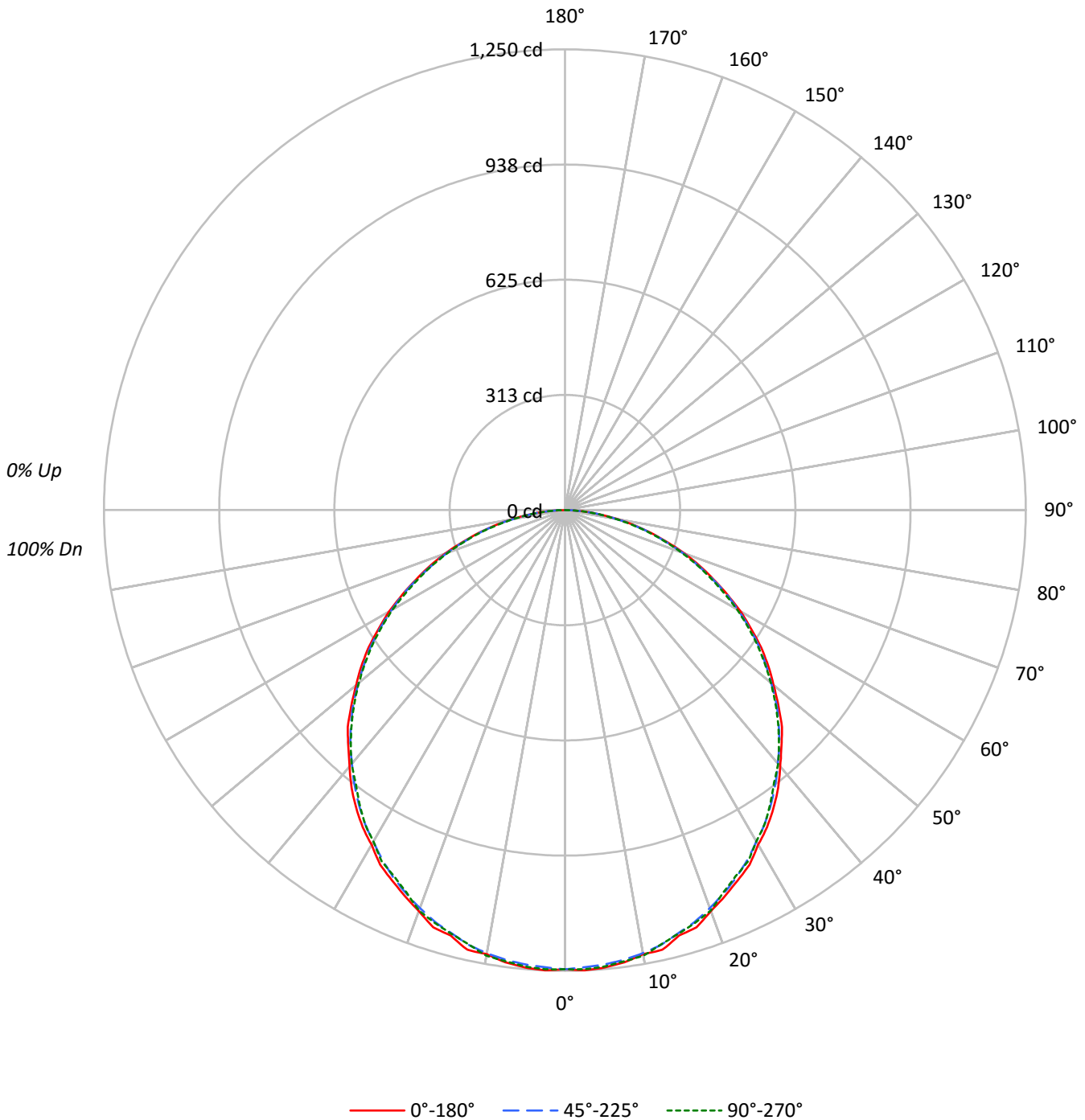
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3543.1 lumens  
Efficiency: N/A  
Efficacy: 113.6 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): 31.19  
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	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	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83				83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	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	54	47	73	61	53	47	59	52	46	57	51	46	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	45	37	32	43	37	32	42	36	31	29				29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27				27
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°	3352	3352	3352
5°	3365	3342	3357
10°	3343	3335	3354
15°	3330	3310	3314
20°	3315	3291	3311
25°	3292	3267	3254
30°	3258	3227	3227
35°	3242	3200	3191
40°	3191	3157	3162
45°	3169	3121	3111
50°	3094	3059	3053
55°	3047	3008	2988
60°	2961	2923	2900
65°	2834	2807	2772
70°	2731	2687	2643
75°	2546	2503	2473
80°	2300	2256	2213
85°	1945	1902	1859



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.8	3.3
10°-20°	336.7	9.5
20°-30°	508.1	14.3
30°-40°	610.9	17.2
40°-50°	633.0	17.9
50°-60°	572.7	16.2
60°-70°	437.1	12.3
70°-80°	254.8	7.2
80°-90°	72.0	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°	962.6	27.2
0°-40°	1573.5	44.4
0°-60°	2779.2	78.4
0°-90°	3543.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3543.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1246	1242	1237	1237	1243	118
15°	1195	1194	1188	1191	1190	339
25°	1109	1109	1100	1100	1096	511
35°	987	980	974	973	971	616
45°	833	823	820	816	817	639
55°	650	645	641	638	637	579
65°	445	445	441	440	435	442
75°	245	244	241	236	238	259
85°	63	66	62	63	60	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1245.7	1245.7	1245.7	1245.7	1245.7
2.5°	1249.9	1242.9	1241.5	1244.3	1247.1
5°	1245.7	1241.5	1237.3	1237.3	1242.9
7.5°	1237.3	1233.1	1230.3	1230.3	1234.5
10°	1223.3	1219.1	1220.5	1220.5	1227.5
12.5°	1221.9	1209.3	1207.9	1209.3	1206.5
15°	1195.3	1193.9	1188.3	1191.1	1189.7
17.5°	1186.9	1178.5	1171.5	1172.9	1174.3
20°	1157.6	1154.8	1149.2	1150.6	1156.2
22.5°	1133.8	1135.2	1125.4	1125.4	1122.6
25°	1108.6	1108.6	1100.2	1100.2	1096.0
27.5°	1084.8	1077.8	1070.8	1072.2	1075.0
30°	1048.4	1045.6	1038.6	1040.0	1038.6
32.5°	1020.4	1019.0	1009.2	1006.4	1009.2
35°	986.8	979.8	974.2	972.8	971.4
37.5°	950.4	944.8	937.8	936.4	932.2
40°	908.4	907.0	898.6	900.0	900.0
42.5°	869.2	865.0	860.8	858.0	859.4
45°	832.8	823.0	820.2	816.0	817.4
47.5°	785.2	781.0	778.2	772.6	774.0
50°	739.0	739.0	730.6	729.2	729.2
52.5°	695.7	692.9	685.9	687.3	683.1
55°	649.5	645.3	641.1	638.3	636.9
57.5°	599.1	594.9	592.1	587.9	587.9
60°	550.1	544.5	543.1	537.5	538.9
62.5°	496.9	495.5	494.1	489.9	485.7
65°	445.1	445.1	440.9	439.5	435.3
67.5°	396.1	393.3	389.1	389.1	386.3
70°	347.1	342.9	341.5	337.3	335.9
72.5°	292.5	292.5	288.3	286.9	286.9
75°	244.9	243.5	240.7	236.5	237.9
77.5°	196.0	194.6	193.2	190.4	189.0
80°	148.4	148.4	145.6	147.0	142.8
82.5°	103.6	105.0	102.2	102.2	99.4
85°	63.0	65.8	61.6	63.0	60.2
87.5°	26.6	26.6	25.2	25.2	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)