

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: P298547

Luminaire Tested: **22FPX-21-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: P298547  
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-21-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**

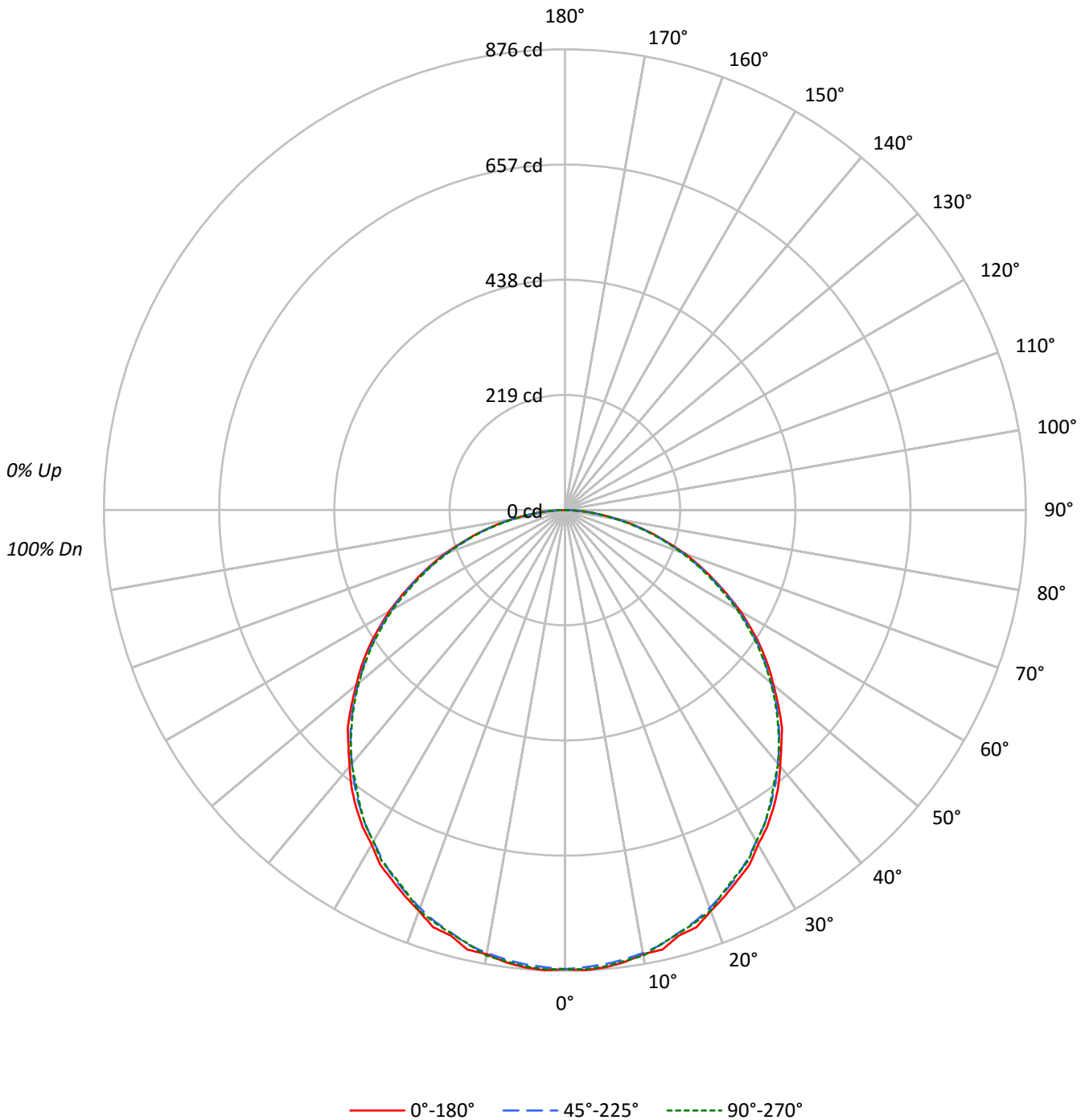
Lumens per Lamp: N/A  
Luminaire Lumens: 2482.2 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 22.17  
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°	2348	2348	2348
5°	2357	2341	2352
10°	2342	2337	2350
15°	2333	2319	2322
20°	2322	2306	2320
25°	2306	2288	2280
30°	2282	2261	2261
35°	2271	2242	2235
40°	2236	2211	2215
45°	2220	2187	2179
50°	2167	2143	2139
55°	2135	2107	2093
60°	2074	2048	2032
65°	1985	1967	1942
70°	1913	1883	1851
75°	1784	1754	1733
80°	1610	1581	1550
85°	1362	1331	1303



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	3.3
10°-20°	235.9	9.5
20°-30°	356.0	14.3
30°-40°	428.0	17.2
40°-50°	443.5	17.9
50°-60°	401.2	16.2
60°-70°	306.2	12.3
70°-80°	178.5	7.2
80°-90°	50.4	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°	674.3	27.2
0°-40°	1102.3	44.4
0°-60°	1947.0	78.4
0°-90°	2482.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2482.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	873	870	867	867	871	83
15°	837	836	832	834	834	237
25°	777	777	771	771	768	358
35°	691	686	682	682	680	432
45°	583	577	575	572	573	448
55°	455	452	449	447	446	406
65°	312	312	309	308	305	310
75°	172	171	169	166	167	181
85°	44	46	43	44	42	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	872.7	872.7	872.7	872.7	872.7
2.5°	875.7	870.8	869.8	871.7	873.7
5°	872.7	869.8	866.8	866.8	870.8
7.5°	866.8	863.9	861.9	861.9	864.9
10°	857.0	854.1	855.1	855.1	860.0
12.5°	856.0	847.2	846.2	847.2	845.3
15°	837.4	836.4	832.5	834.5	833.5
17.5°	831.5	825.6	820.7	821.7	822.7
20°	810.9	809.0	805.1	806.0	810.0
22.5°	794.3	795.2	788.4	788.4	786.4
25°	776.6	776.6	770.7	770.7	767.8
27.5°	759.9	755.0	750.1	751.1	753.1
30°	734.5	732.5	727.6	728.6	727.6
32.5°	714.8	713.9	707.0	705.0	707.0
35°	691.3	686.4	682.5	681.5	680.5
37.5°	665.8	661.9	657.0	656.0	653.1
40°	636.4	635.4	629.5	630.5	630.5
42.5°	608.9	606.0	603.1	601.1	602.1
45°	583.4	576.6	574.6	571.7	572.7
47.5°	550.1	547.2	545.2	541.3	542.3
50°	517.7	517.7	511.9	510.9	510.9
52.5°	487.3	485.4	480.5	481.5	478.5
55°	455.0	452.0	449.1	447.1	446.2
57.5°	419.7	416.7	414.8	411.8	411.8
60°	385.4	381.4	380.5	376.5	377.5
62.5°	348.1	347.1	346.1	343.2	340.3
65°	311.8	311.8	308.9	307.9	305.0
67.5°	277.5	275.5	272.6	272.6	270.6
70°	243.2	240.2	239.3	236.3	235.3
72.5°	204.9	204.9	202.0	201.0	201.0
75°	171.6	170.6	168.7	165.7	166.7
77.5°	137.3	136.3	135.3	133.4	132.4
80°	103.9	103.9	102.0	103.0	100.0
82.5°	72.6	73.5	71.6	71.6	69.6
85°	44.1	46.1	43.1	44.1	42.2
87.5°	18.6	18.6	17.7	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)