

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: P298548

Luminaire Tested: **22FPX-25-L835-HE-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: P298548  
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-25-L835-HE-LV1-SWPD1  
Description: 2x2 FPX SERIES LED PANEL, 3500K 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

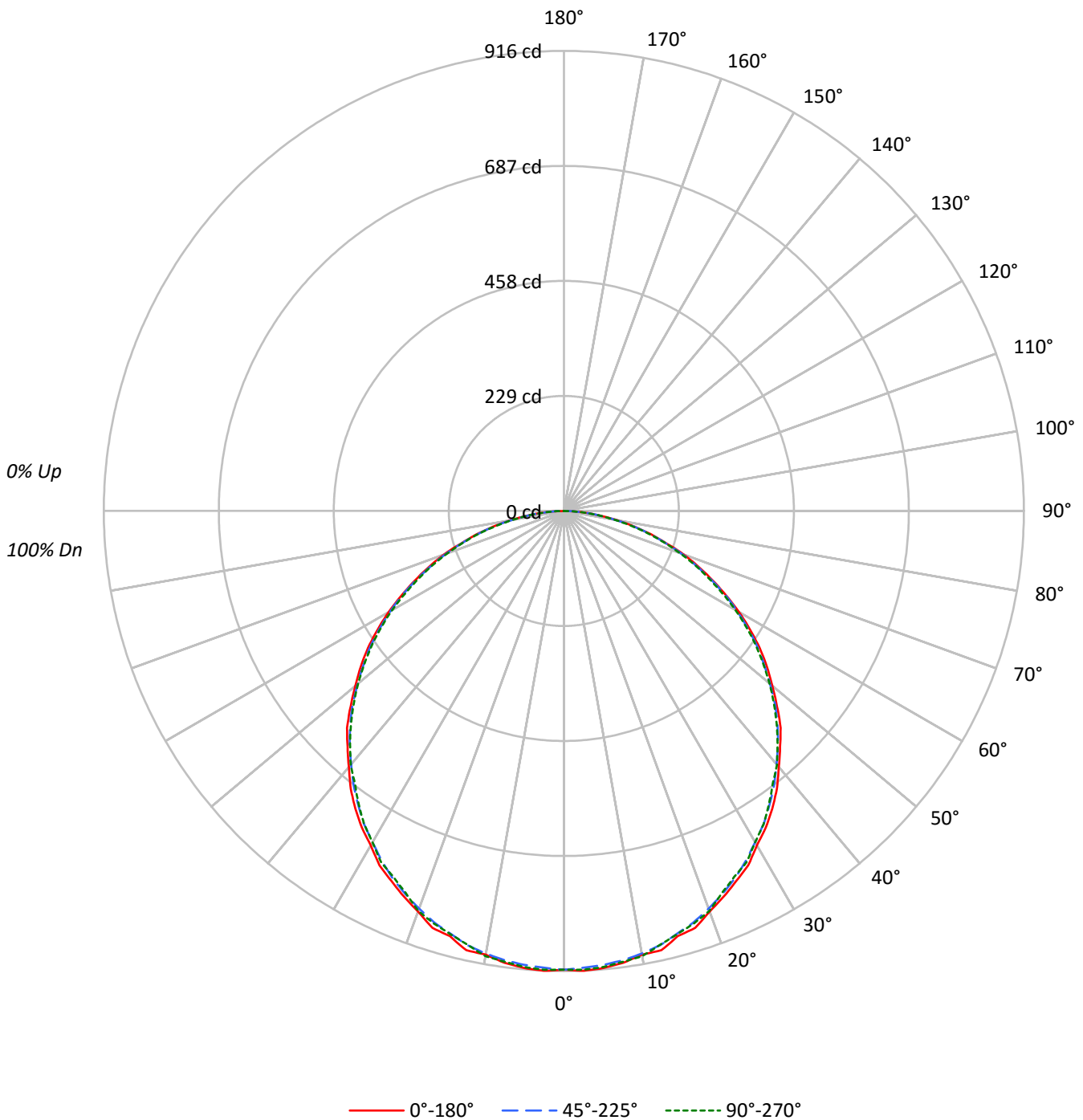
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2597.6 lumens  
Efficiency: N/A  
Efficacy: 122.5 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): 21.21  
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°	2458	2458	2458
5°	2467	2450	2462
10°	2451	2445	2459
15°	2442	2427	2430
20°	2430	2413	2427
25°	2413	2395	2386
30°	2388	2366	2366
35°	2377	2346	2340
40°	2340	2314	2318
45°	2324	2288	2281
50°	2268	2243	2238
55°	2234	2205	2190
60°	2171	2143	2126
65°	2078	2058	2032
70°	2002	1970	1938
75°	1867	1835	1814
80°	1686	1654	1623
85°	1426	1396	1362



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.3	3.3
10°-20°	246.8	9.5
20°-30°	372.5	14.3
30°-40°	447.9	17.2
40°-50°	464.1	17.9
50°-60°	419.9	16.2
60°-70°	320.4	12.3
70°-80°	186.8	7.2
80°-90°	52.8	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°	705.7	27.2
0°-40°	1153.6	44.4
0°-60°	2037.6	78.4
0°-90°	2597.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2597.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	913	913	913	913	913	
5°	913	910	907	907	911	87
15°	876	875	871	873	872	248
25°	813	813	807	807	804	375
35°	724	718	714	713	712	452
45°	611	603	601	598	599	469
55°	476	473	470	468	467	424
65°	326	326	323	322	319	324
75°	180	179	176	173	174	190
85°	46	48	45	46	44	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	913.3	913.3	913.3	913.3	913.3
2.5°	916.4	911.3	910.2	912.3	914.3
5°	913.3	910.2	907.1	907.1	911.3
7.5°	907.1	904.1	902.0	902.0	905.1
10°	896.9	893.8	894.8	894.8	900.0
12.5°	895.9	886.6	885.6	886.6	884.6
15°	876.4	875.3	871.2	873.3	872.3
17.5°	870.2	864.0	858.9	859.9	861.0
20°	848.7	846.6	842.5	843.5	847.6
22.5°	831.2	832.2	825.1	825.1	823.0
25°	812.7	812.7	806.6	806.6	803.5
27.5°	795.3	790.2	785.0	786.1	788.1
30°	768.6	766.6	761.4	762.5	761.4
32.5°	748.1	747.1	739.9	737.8	739.9
35°	723.5	718.3	714.2	713.2	712.2
37.5°	696.8	692.7	687.5	686.5	683.4
40°	666.0	665.0	658.8	659.8	659.8
42.5°	637.3	634.2	631.1	629.1	630.1
45°	610.6	603.4	601.3	598.3	599.3
47.5°	575.7	572.6	570.6	566.5	567.5
50°	541.8	541.8	535.7	534.6	534.6
52.5°	510.0	508.0	502.8	503.9	500.8
55°	476.1	473.1	470.0	467.9	466.9
57.5°	439.2	436.1	434.1	431.0	431.0
60°	403.3	399.2	398.2	394.1	395.1
62.5°	364.3	363.3	362.2	359.2	356.1
65°	326.3	326.3	323.2	322.2	319.1
67.5°	290.4	288.4	285.3	285.3	283.2
70°	254.5	251.4	250.4	247.3	246.3
72.5°	214.5	214.5	211.4	210.4	210.4
75°	179.6	178.6	176.5	173.4	174.5
77.5°	143.7	142.6	141.6	139.6	138.5
80°	108.8	108.8	106.7	107.7	104.7
82.5°	75.9	77.0	74.9	74.9	72.9
85°	46.2	48.2	45.2	46.2	44.1
87.5°	19.5	19.5	18.5	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)